

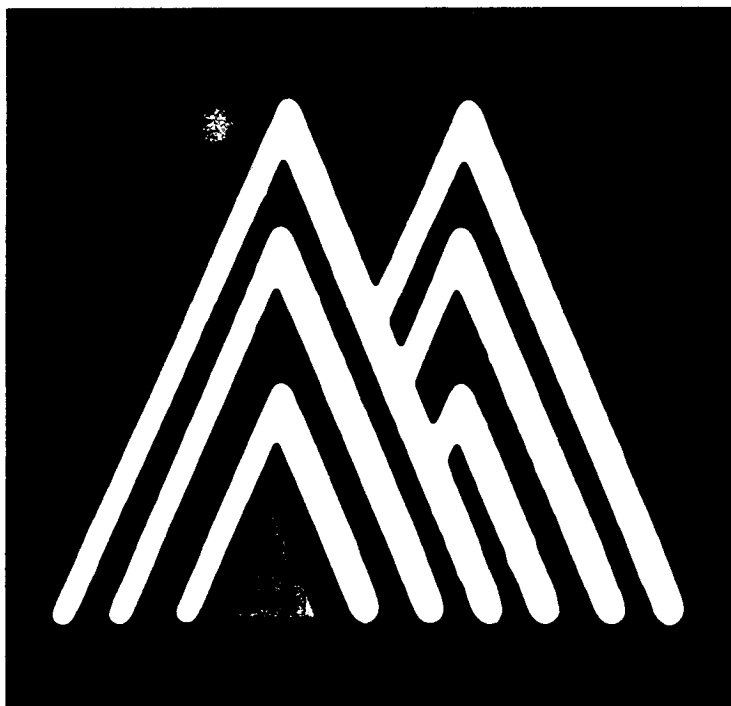
REPORT

UNDERGROUND STORAGE TANK REMOVAL

MCDONNELL DOUGLAS CORPORATION

19503 SOUTH NORMANDIE AVENUE
TORRANCE, CALIFORNIA 90502

MANESS PROJECT # 40443



Prepared For:
McDonnell Douglas Corporation
3855 Lakewood Boulevard
Long Beach, California 90802

Prepared By:
Maness Environmental Services, Inc.
1101 East Spring Street
Long Beach, California 90807

August 22, 1994



August 22, 1994

Maness Project # 40443

**Fire Department -
City of Los Angeles Permit # 3757**

Mr. Scott Lattimore
McDonnell Douglas Corporation
19503 South Normandie Avenue
Torrance, California 90502

**RE: UNDERGROUND STORAGE TANK REMOVAL CLOSURE REPORT,
19503 S. Normandie Avenue in Torrance, California.**

Dear Mr. Lattimore:

Enclosed please find Maness Environmental Services, Inc., (Maness) final report for the closure of two 7,500 gallon and two 500 gallon hydraulic fuel oil, and two 50,000 gallon diesel fuel oil underground storage tanks (USTs) at the McDonnell Douglas Aircraft Facility at the above referenced site.

The work completed consisted of: (1) excavation, removal and disposal of the USTs and associated piping, (2) soil sample collection and analysis from beneath the former UST and spoils pile locations, (3) a site assessment, and (4) a final tank closure report, summarizing the results of all field activities and analytical testing.

Results of laboratory testing indicated that elevated concentrations of total recoverable petroleum hydrocarbons were detected in the spoils piles and in the area of the 500 gallon USTs. Maness completed a site assessment and subsequently removed the impacted soil from the excavation of the 500 gallon UST locations. The impacted soil was disposed at an approved recycling facility.

Maness appreciates the opportunity to provide environmental management services for McDonnell Douglas Corporation. If you have any questions regarding the report or require additional information, please feel free to call.

Sincerely,

Maness Environmental Services, Inc.



Gabriele E. Baader
Project Geologist

cc: Los Angeles City Fire Department
Bureau of Fire Prevention
Plan Check Unit
200 North Main Street, Room 920
Los Angeles, California 90012
Attn.: Inspector Cooper

TABLE OF CONTENTS

ITEM	PAGE
1.0 Introduction.....	1
1.1 Purpose and Scope of Work	1
2.0 Field Engineering	2
2.1 Tank Removal Operations.....	2
2.2 Soil Sampling	3
3.0 Site Geology and Hydrogeology.....	4
4.0 Laboratory Testing	5
4.1 Methods of Analysis	5
4.2 Results of Analysis	5
5.0 Site Assessment.....	9
6.0 Conclusions.....	10
7.0 Limitations	11

Figures and Appendices:

- Figure 1 - Site Plan
- Figure 2 - UST and Soil Sample Locations South
- Figure 3 - UST and Soil Sample Locations North
- Figure 4 - UST and Soil Sample Locations North after Backfilling
- Appendix A - UST Removal Permit
- Appendix B - SCAQMD Rule 1166 Monitoring Records
- Appendix C - Hazardous Waste Manifest
- Appendix D - Marine Chemist Certificate
- Appendix E - Tank Disposal Certificate
- Appendix F - Laboratory Reports
- Appendix G - Chain of Custody Documents
- Appendix H - Certified Compaction Report
- Appendix I - Non-Hazardous Waste Data Forms

REPORT

**UNDERGROUND STORAGE TANK REMOVAL
MCDONNELL DOUGLAS CORPORATION**

**19503 SOUTH NORMANDIE AVENUE
TORRANCE, CALIFORNIA 90502**

1.0 INTRODUCTION

This report summarizes tank closure operations recently completed at the McDonnell Douglas Aircraft Facility at the above referenced site.

1.1 PURPOSE AND SCOPE OF WORK

McDonnell Douglas Corporation (Douglas) engaged Maness Environmental Services, Inc., (Maness) to remove and dispose of two 7,500 gallon and two 500 gallon single wall hydraulic fuel oil, and two 50,000 gallon diesel fuel oil underground storage tanks (USTs) and associated piping at the DAC C6 facility in Torrance at the above referenced site. Figure 1 shows the location of the USTs at the facility. In addition, Maness personnel collected soil samples after the UST removal to determine whether contents previously stored in the underground storage tanks have impacted the surrounding subsurface soil.

2.0 FIELD ENGINEERING

2.1 TANK REMOVAL OPERATIONS

Before commencement of work, on behalf of the client, Maness applied for an underground storage tank closure permit at the Los Angeles City Fire Department, Underground Tank Enforcement Unit (LAFD) in Los Angeles, California. Work began as soon as the permit (#3757) was approved by LAFD (Appendix A - UST Removal Permit).

While excavating USTs or the soil in the vicinity of the USTs, the South Coast Air Quality Management District (SCAQMD) requires that the soil be monitored for volatile organic vapors (Rule 1166). Vapor concentrations are monitored to avoid adverse affects on the health and safety of personnel by using the appropriate personnel protective equipment and vapor suppressant methods.

In July 1994, during excavation of soil in the vicinity of the tanks, the soil was monitored by Maness personnel for fuel contamination. A portable organic vapor analyzer (OVA, Foxboro Model 128 GC) was passed over each load of soil removed from the excavation and the surface of the stockpiles in accordance with SCAQMD Rule 1166.

Organic vapor concentrations were not detected during the excavations. However, some discolored soil was detected in both excavations. Subsequently, the impacted soil was separated, stock piled and covered with visqueen. The SCAQMD Rule 1166 monitoring records are included in Appendix B.

On July 5, 1994, Maness properly cleaned and triple rinsed the underground storage tanks per regulatory requirements to the extent necessary for the tank removal as to minimize generating excess rinsate. The USTs were pressure rinsed sufficiently until satisfactory lower explosive limits (LEL) and total oxygen content levels were achieved. Douglas engaged Laidlaw Environmental Services, Inc. to transport the tank rinsate to Chem-Tech Systems, Inc. in Los Angeles, California, for recycling. The hazardous waste manifest is included in Appendix C.

A marine chemist certified the USTs safe for transport. Under the direction of the Los Angeles City Fire Department Inspector, Maness removed the USTs from the excavation and transported the USTs and associated piping to Lopez General Engineering Contractor in Signal Hill, California. The marine chemist certificate and the tank disposal certificate are included in Appendix D and Appendix E, respectively.

2.2 SOIL SAMPLING

Upon completion of tank removal operations, under the direction of the LAFD inspector, Maness personnel collected eleven (11) soil samples each beneath the former USTs and from the spoils piles at the subject site. Figure 1 is a site plan showing the former UST and the soil sample locations. The soil samples were collected from the UST excavation with the bucket of a back hoe tractor. The soil samples collected from the spoils piles adjacent to the excavation were collected using a hand auger sampling system.

The soil samples were collected from the following locations (see Figure 2 - UST and Soil Sample Locations South): One soil sample was collected beneath the center of each of the 500 gallon USTs, at 7 feet below grade (ft bg). A total number of three soil samples were collected beneath the two 7,500 gallon USTs, at 14 ft bg. Three samples were collected from the spoils pile (SP1 through SP3). These USTs previously contained hydraulic oil.

Figure 3 shows the former location of two 50,000 gallon USTs previously containing fuel oil. Three soil samples were collected beneath each of the tanks, at the north end, south end and the center at 16 ft bg. In addition, eight (8) soil samples were collected from the spoils piles located adjacent to the excavation. All tank confirmation samples were collected approximately three feet beneath the bottom of the former UST locations.

The soil samples were packaged in 250 milliliter Qorpak glass jars, sealed with Teflon lined lids and labeled. The samples were delivered to a mobile, on-site, state certified, analytical laboratory for immediate testing. Laboratory results and chain of custody documents are included in Appendix F and Appendix G, respectively. Maness personnel conducted all work under the direction of a California registered geologist.

3.0 SITE GEOLOGY AND HYDROGEOLOGY

The subject site overlies alluvial sediments consisting of medium brown, coarse to fine grained silty sand and light brown to light gray, coarse to fine grained sand. The surrounding topography is consistently flat. The ground surface elevation is approximately 51 feet above mean sea level (MSL).

A review of the Los Angeles County Department of Public Works hydrologic records indicates, that the first groundwater beneath the site is approximately 101 feet below ground surface. Well # 794 C is located south of 190th Street, between Western and Normandie Avenue, on the Douglas property. The monitoring well was last measured on October 15, 1993. Groundwater was not encountered during the excavation.

4.0 LABORATORY TESTING

4.1 METHODS OF ANALYSIS

Laboratory samples were collected, maintained, prepared and analyzed according to Test Methods for Evaluating Solid Waste, (SW-846), Third Edition, Update #2, November 1990. These methods as prescribed by the Environmental Protection Agency (EPA) provide test procedures which determine whether the sample is a hazardous waste within the definition of the Resource Conservation Recovery Act (RCRA).

A state certified, analytical laboratory (Jones Environmental, Inc., Fullerton, California) analyzed the confirmation samples, collected from beneath the former UST and spoils pile locations. The UST and spoils pile confirmation samples were analyzed for total recoverable petroleum hydrocarbons (TRPH) by EPA method 418.1, total petroleum hydrocarbons in accordance with California Department of Health Services (CADOHS) modified EPA method 8015 for diesel, and for volatile aromatic hydrocarbons as Benzene, Toluene, Ethylbenzene and total Xylenes (BTEX) in accordance with EPA test method 8020. In addition, all of the soil samples were analyzed for total lead by EPA method 7420 as required by LAFD.

4.2 RESULTS OF ANALYSIS

The laboratory results of the soil samples collected beneath the former UST locations indicated that the soil beneath the USTs at the site was not significantly impacted by petroleum hydrocarbons. The laboratory results of the UST confirmation samples showed no concentrations above the detection limit or less than LAFD action limit of 100 milligrams per kilogram (mg/kg) of petroleum hydrocarbons. However, one soil sample collected beneath the western 500 gallon UST (Figure 2) showed elevated concentrations of TRPH. Subsequently, the LAFD referred the site to the Plan Check Unit, which supervises remediation at contaminated sites within their jurisdiction (see Section 5.0 Site Assessment).

During the excavation, the soil was separated into "clean" and "contaminated" spoils piles. Results of the laboratory testing for the soil samples collected from the spoils piles indicated that some of the stockpiled soil had been impacted with TRPH. The analytical test results are summarized in Table 1 through Table 3:

TABLE 1
Soil Samples collected on July 7, 1994

SAMPLE ID	EPA 418.1 TRPH	CADOHS 8015 DIESEL	EPA 8020 BTEX	EPA 7420 LEAD	SAMPLE LOCATION
T 13 - 7'	7,900	-	ND	ND	Western 500 g Center
T 14 - 7'	37	-	ND	ND	Eastern 500 g Center
T 11/12 - 14'	50	-	ND	ND	Center 7,500 g USTs
T 11 - 14'	ND	-	ND	ND	Western 7,500 g West
T 12 - 14'	ND	-	ND	ND	East 7,500 g East
SP - 1	ND	-	ND	ND	South Spoils Pile West
SP - 2	2,100	-	ND	ND	South Spoils Pile Center
SP - 3	4,600	-	ND	ND	South Spoils Pile East
SP - 4	ND	ND	ND	ND	North Spoils Pile East
SP - 5	ND	ND	ND	ND	North Spoils Pile
SP - 6	ND	ND	ND	ND	Western Spoils Pile
SP - 7	170	ND	ND	ND	Western Spoils Pile
SP - 8	360	ND	ND	ND	Western Spoils Pile
SP - 9	ND	ND	ND	ND	Southw. Spoils Pile East
SP - 10	260	ND	ND	ND	Southw. Spoils Pile Center
SP - 11	ND	ND	ND	ND	Southw. Spoils Pile West
T 20 A - 16'	ND	ND	ND	ND	Western 50,000 g South
T 20 B - 16'	ND	ND	ND	ND	Western 50,000 g Center
T 20 C - 16'	ND	ND	ND	ND	Western 50,000 g North
T 19 A - 16'	ND	ND	ND	ND	Eastern 50,000 g South
T 19 B - 16'	35	ND	ND	ND	Eastern 50,000 g Center
T 19 C - 16'	52	ND	ND	ND	Eastern 50,000 g North
Detection Limit	10 mg/kg	10.0 mg/kg	5.0 ug/kg	10.0 mg/kg	

Note: ND = not detected above detection limit
ug/kg = microgram per kilogram
- = not analyzed
mg/kg = milligram per kilogram
Samples shown with depth in feet below grade

TABLE 2
Soil Samples collected on July 14 and 20, 1994

SAMPLE ID	EPA 418.1 TRPH	EPA 8020 BTEX	EPA 7420 LEAD	SAMPLE LOCATION
HA 1 - 9'	700	ND	ND	Center of 500 g UST
HA 1 - 12'	520	ND	ND	Center of 500 g UST
HA 1 - 15'	240	ND	ND	Center of 500 g UST
HA 1 - 20'	ND	ND	ND	Center of 500 g UST
HA 2 - 5'	ND	ND	ND	West of 500 g UST
HA 2 - 10'	ND	ND	ND	West of 500 g UST
HA 2 - 15'	ND	ND	ND	West of 500 g UST
HA 3 - 5'	ND	ND	ND	South of 500 g UST
HA 3 - 10'	ND	ND	ND	South of 500 g UST
HA 3 - 15'	63	ND	ND	South of 500 g UST
HA 3 - 20'	ND	ND	ND	South of 500 g UST
HA 4 - 9'	60	ND	ND	East of 500 g UST
HA 4 - 12'	730	ND	ND	East of 500 g UST
HA 4 - 15'	32	ND	ND	East of 500 g UST
HA 4 - 20'	ND	ND	ND	East of 500 g UST
Detection Limit	10 mg/kg	5.0 ug/kg	10.0 mg/kg	

Note: ND = not detected above detection limit

mg/kg = milligram per kilogram

ug/kg = microgram per kilogram

Samples shown with depth in feet below grade

TABLE 3
Soil Samples collected on July 20, 1994

SAMPLE ID	EPA 418.1 TRPH	CADOHS 8015 DIESEL	EPA 8020 BTEX	SAMPLE LOCATION
SP - 12	ND	ND	-	Westwest Alley Pile
SP - 13	130	ND	ND	West Alley Pile
SP - 14	160	ND	ND	East Alley Pile
SP - 15	130	ND	ND	Easteast Alley Pile
SP - 16	330	ND	ND	1. Pile South
SP - 17	160	ND	ND	1. Pile North
SP - 18	550	ND	ND	2. Pile South
SP - 19	140	ND	ND	2. Pile North
SP - 20	84	ND	-	3. Pile South
SP - 21	120	ND	ND	3. Pile North
SP - 22	270	ND	ND	4. Pile South
SP - 23	160	ND	ND	4. Pile North
SP - 24	-	ND	ND	Roll Off Bin
SP - 25	48	-	-	East of SP1 (7500g)
SP - 26	260	-	ND	West of SP2 (7500g)
Detection Limit	10 mg/kg	10.0 mg/kg	5.0 ug/kg	

Note: ND = not detected above detection limit

mg/kg = milligram per kilogram

ug/kg = microgram per kilogram

- = not analyzed

Samples shown with depth in feet below grade

5.0 SITE ASSESSMENT

In accordance with City of Los Angeles Fire Department, Plan Check Unit, (LAFD) requirements the following scope of work has been completed. Using a hand advanced auger, we completed a total of four borings in the area of the previously detected soil contamination.

The area of total recoverable petroleum hydrocarbon (TRPH) impacted soil was located beneath the former western 500 gallon UST location, previously containing hydraulic oil. According to LAFD requirements, the borings were placed approximately 5 ft outward and below the contamination. The extent of the plume was determined by placing the hand auger borings in three locations encircling the previously collected sample ID T13-7', and one boring was completed in the center. Figure 3 shows the location of the borings and Table 1 the tank confirmation sample results.

Maness completed the borings to 15 and 20 feet below grade (ft bg). Samples were recovered at approximately five foot intervals. Laboratory results for soil samples collected from the center and east of the UST to 12 ft bg (HA4) and 15 ft bg (HA1) showed concentrations of TRPH above the action limit of 100 mg/kg. Maness collected additional soil samples at 20 ft bg at location HA1 and 15 and 20 ft bg at location HA4. The test results determined that the impacted soil was localized between the bottom of the former UST location at 7 ft bg and 15 ft bg. East of the UST location the impacted soil did not extent beyond 12 ft bg. The soil samples collected west and south of the UST were none detected or less than the LAFD action limit. Table 2 summarizes the test results of the hand auger borings.

Due to the unstable condition of the sidewalls, Maness excavated approximately six cubic yards of TRPH impacted soil to a depth of 20 ft bg beneath the former UST location and stabilized the bottom of the excavation with pea gravel.

Maness personnel removed all of the TRPH impacted soil from the affected area. Subsequently, Douglas instructed Maness to complete a profile of the TRPH impacted spoils piles generated from the excavations. Maness collected and analyzed additional soil samples, to determine whether all of the separated soil was impacted. Figure 2 and Figure 4 show the locations of fifteen (15) soil samples collected from the spoils piles. Table 3 summarizes the results.

Upon approval by the LAFD Plan Check Unit, Maness backfilled and properly compacted the excavation to 95% at optimum moisture content. The backfill material consists of clean cohesive soil, free from organic materials and refuse. The certified compaction report is included in Appendix H.

6.0 CONCLUSIONS

McDonnell Douglas Corporation engaged Maness to perform an underground storage tank closure at the Douglas Aircraft facility at 19503 South Normandie Avenue in Torrance, California. According to all applicable state, county and City of Los Angeles guidelines, Maness removed two 50,000 gallon, two 7,500 gallon and two 500 gallon underground storage tanks, previously storing fuel and hydraulic oil, from the subject site.

The analytical results of soil samples collected beneath the former USTs indicate that the petroleum hydrocarbon impacted subsurface soil has been removed from the excavation. During the excavation, the contaminated soil was placed on separate spoils piles. Analysis of the soil samples collected from the separated piles showed total recoverable petroleum hydrocarbons above the LAFD clean-up criteria in several spoils piles. Upon profiling, a total of 542.49 tons of TRPH impacted soil was transported to TPS Technology, Inc. recycling facility in Adelanto, California. The non-hazardous waste data forms are included in Appendix I.

The tank removal operation was supervised by a California registered geologist. The excavation was backfilled with clean imported soil and certified compacted to 95%.

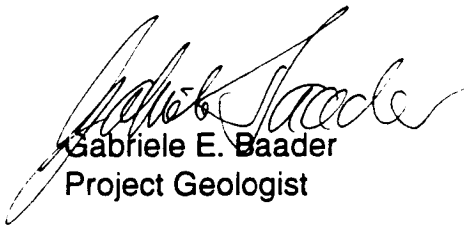
7.0 LIMITATIONS


Maness Environmental Services, Inc., performs professional services using that degree of care and skill ordinarily exercised by environmental consultants practicing in this or similar localities. The findings are based primarily upon analytical results provided by an independent laboratory. Interpretations of the subsurface conditions at the site, for the purpose of this investigation, are made from a limited number of available data points (example: soil samples) and subsurface conditions may be different in other locations.

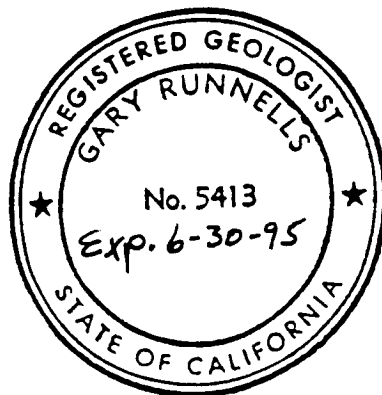
Maness appreciates the opportunity to provide environmental management services for McDonnell Douglas Corporation. If you have any questions regarding the report or require additional information, please feel free to call.

Sincerely,

Maness Environmental Services, Inc.


Gabriele E. Baader
Project Geologist


Gary Runnells, R.E.A., R.G.
Registered Geologist



FIGURES
AND
APPENDICES

FIGURE 1

SITE PLAN

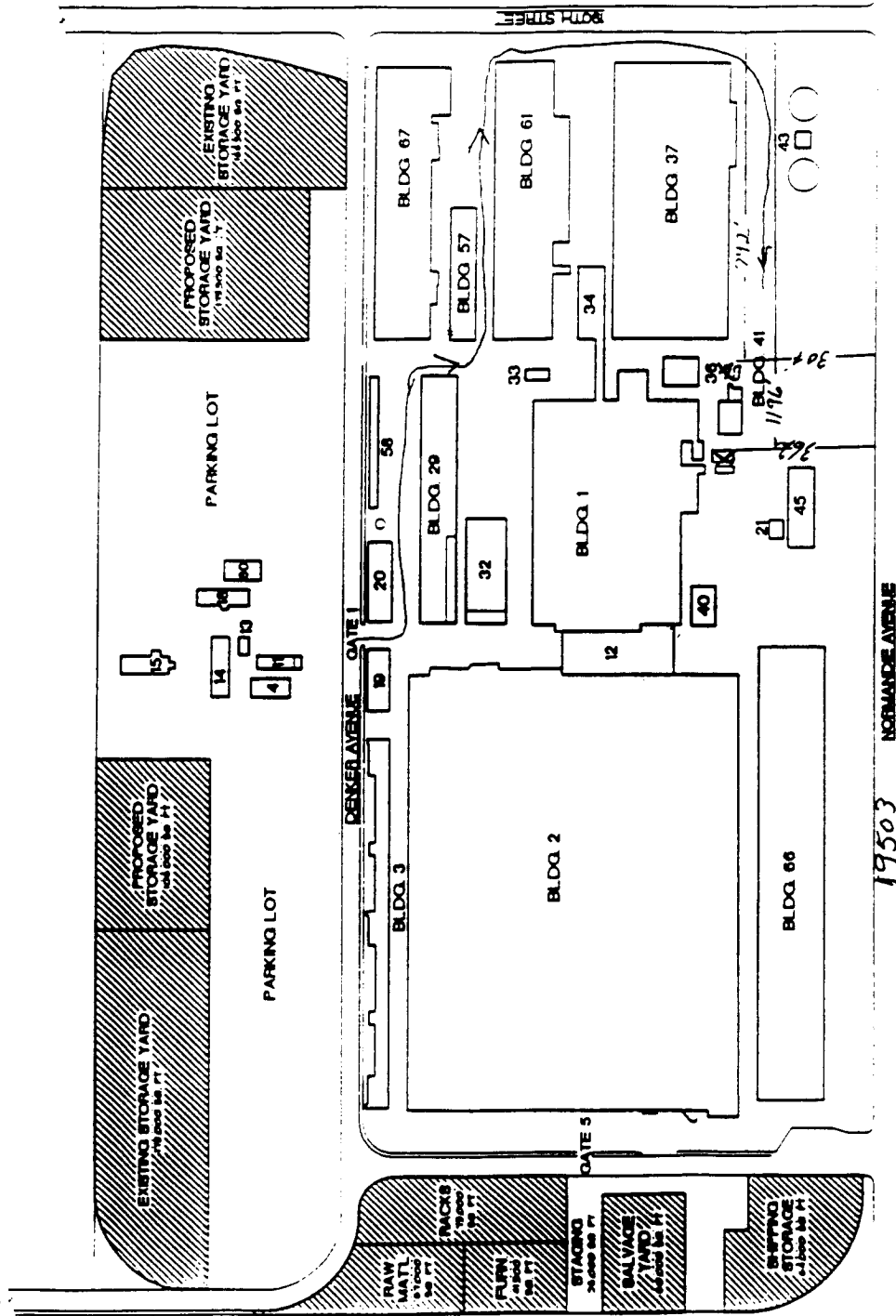


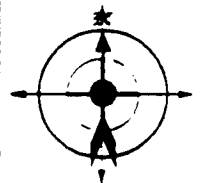
FIGURE 1
SITE PLAN

SITE LOCATION

DOUGLAS AIRCRAFT COMPANY
19503 S. NORMANDIE AVE
TORRANCE
CALIFORNIA 90502

PREPARED FOR

DOUGLAS AIRCRAFT COMPANY
19503 S. NORMANDIE AVE
TORRANCE
CALIFORNIA 90502



PROJECT #: 40443
DATE: 7/29/1994



DRAWN BY: G. BAADER
CHECKED BY: G. RUNNELLS
APPROVED BY: D. HERRERA



MANESS
ENVIRONMENTAL SERVICES, INC.

A DIVISION OF
MANESS INDUSTRIES

1101 E. SPRING ST., P.O. BOX 90939, LONG BEACH, CA. 90809-0939
CONTRACTOR LICENSE NO. 553633, TEL (310) 595-4555, FAX (310) 497-6495

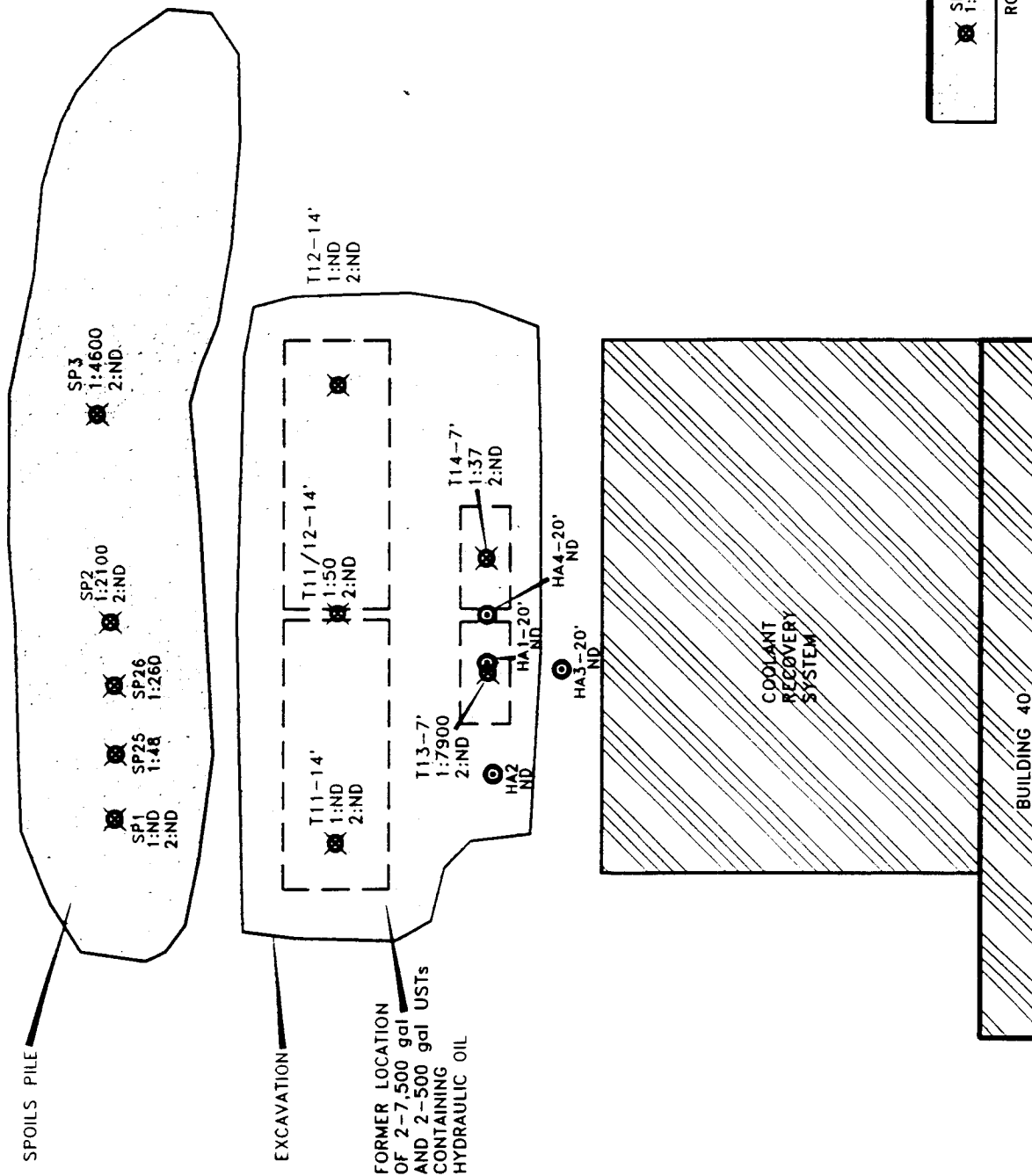
FIGURE 2
UST AND
SOIL SAMPLE LOCATIONS SOUTH

SPOILS PILE

FIGURE 2
UST AND SOIL
SAMPLE LOCATIONS
SOUTH

EXCAVATION

FORMER LOCATION
 OF 2-7,500 gal
 AND 2-500 gal USTs
 CONTAINING
 HYDRAULIC OIL



SITE LOCATION

DOUGLAS AIRCRAFT COMPANY
 19503 S. NORMANDIE AVE
 TORRANCE
 CALIFORNIA 90502

PREPARED FOR

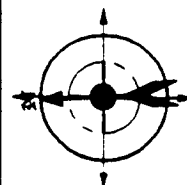
DOUGLAS AIRCRAFT COMPANY
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LEGEND

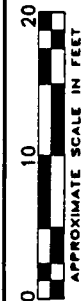
- SOIL SAMPLE LOCATIONS
 ○ HAND AUGER BORINGS
 1 418.1 TRPH
 2 8020 BTEX
 3 7420 TOTAL LEAD
 ND NONE DETECTED
 ALL RESULTS IN
 MILLIGRAMS PER KILOGRAM

SP24
 1:410

ROLL OFF BIN



PROJECT #: 40443
 DATE: 7/29/1994



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 APPROVED BY: D. HERRERA



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FIGURE 3
UST AND
SOIL SAMPLE LOCATIONS NORTH

FIGURE 3

UST AND SOIL
SAMPLE LOCATIONS
NORTH

SITE LOCATION

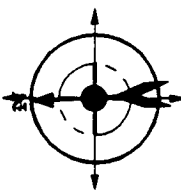
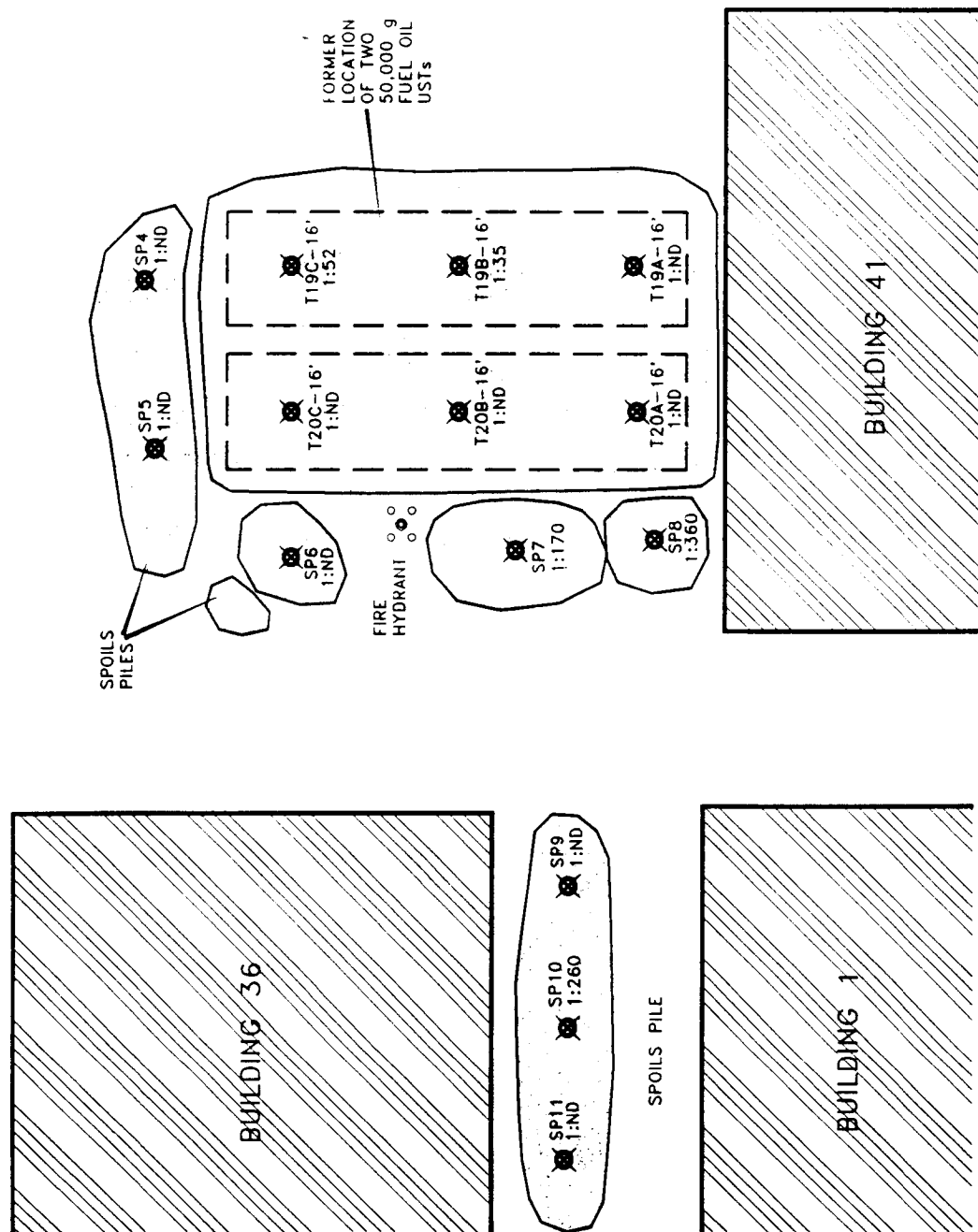
DOUGLAS AIRCRAFT COMPANY
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CALIFORNIA 90502

PREPARED FOR

DOUGLAS AIRCRAFT COMPANY
19503 S. NORMANDIE AVE
TORRANCE
CALIFORNIA 90502

LEGEND

- SOIL SAMPLE LOCATIONS
1 418.1 TRPH RESULTS
ND NONE DETECTED
NO TPH (DIESEL), BTEX
OR LEAD DETECTED
ALL RESULTS IN
MILLIGRAMS PER KILOGRAM



PROJECT #: 40443
DATE: 07/21/1994



DRAWN BY: G. BAADER
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FIGURE 4
UST AND SOIL SAMPLE
LOCATIONS NORTH AFTER BACKFILLING

FIGURE 4

UST AND SOIL
SAMPLE LOCATIONS
NORTH
AFTER BACKFILLING

SITE LOCATION

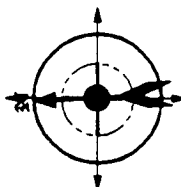
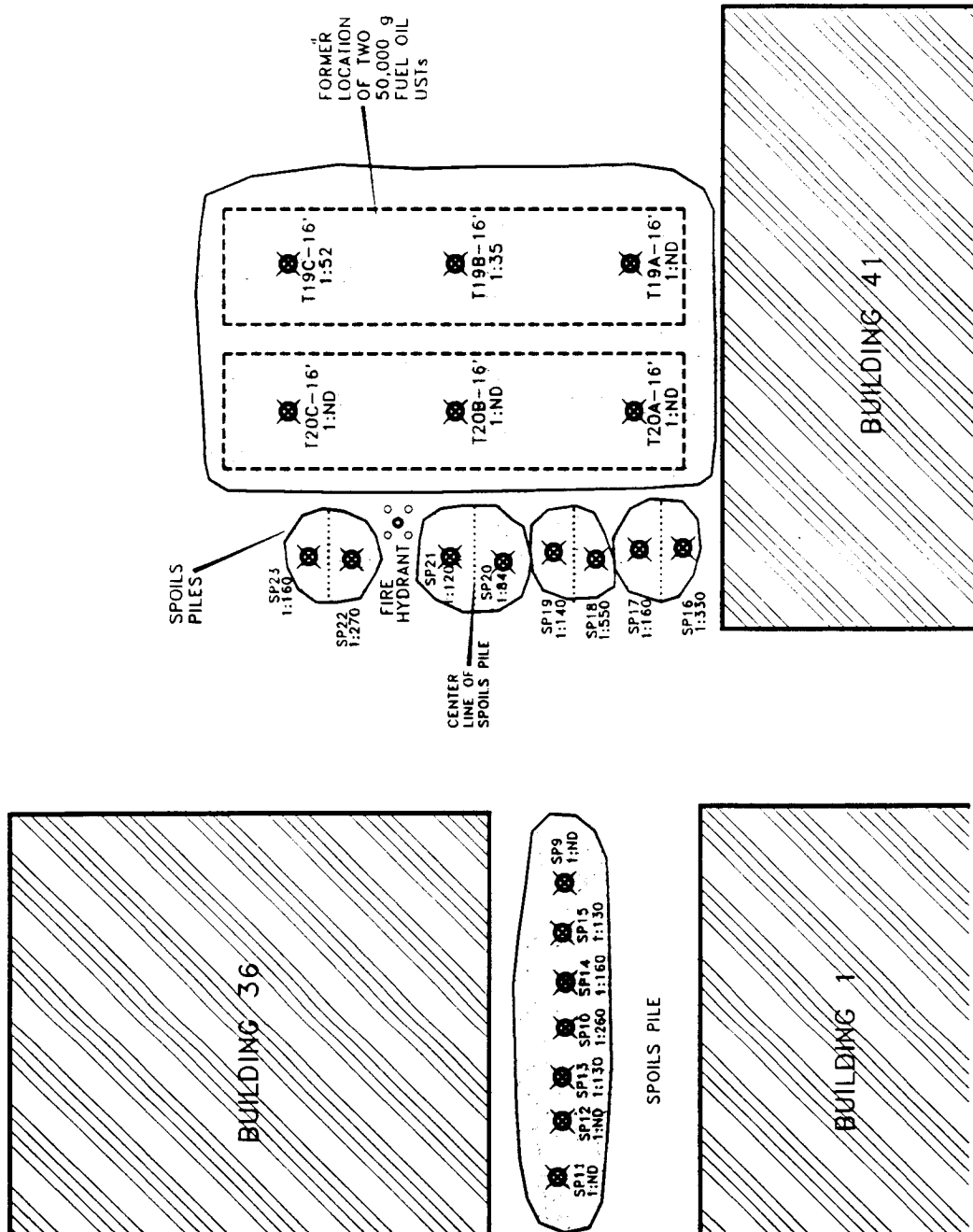
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LEGEND

SOIL SAMPLE LOCATIONS
1 418.1 TRPH RESULTS
ND NONE DETECTED
NO TPH (DIESEL), BTEX
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ALL RESULTS IN
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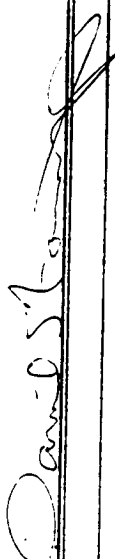

APPENDIX A

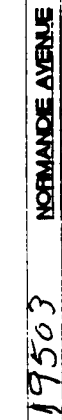
UST REMOVAL PERMIT

FIRE DEPARTMENT - CITY OF LOS ANGELES

APPLICATION FOR PERMIT - ATMOSPHERIC UNDERGROUND TANK

PLEASE PRINT OR TYPE

Name of Owner of Property DOUGLAS AIRCRAFT CO. 310-593-5511		Doing Business As DOUGLAS AIRCRAFT CO.		Permit No. 3757	
Address of Owner 3855 Lakewood Blvd Long Beach		City Long Beach	State ca.	Zip 90846	Owner's Phone 310 593 3902
Address of Site 19503 S. Normandie Ave Torrance		City Torrance	State CA.	Zip 90502	Phone at Site 310 533 7926
Contractor's Company Name MANESS ENVIRONMENTAL SERVICES					
Address 1101 E. Spring St Long Beach		City Long Beach	State CA.	Zip 90807	Contact dan Farrington
Signature of Applicant 		Title Project Foreman		Contractor's Phone 310 595 4555	
QTY.	ITEM	I.D. NO(S)			
4	UGT/S ABANDONMENT BY REMOVAL	EPA# CAD 086 510 005			
	UGT/S TANK ENTRY/LINING/REPAIR	State Contractor Type/# A B Haz 553633			
	UGT/S ABANDONMENT IN PLACE	City Business# 704659-95			
	UGT/S INSTALLATION				
	UGT/S ADD TO/ALTER: MONITORING				
	UGT/S ADD TO/ALTER: PIPING/DISPENSER				
Date Approved 6/6/94	Date 6/11/94	Inspector 			



SUBJECT TO FIELD

BLDG. 1

The approval of these plans and/or specifications does not exempt them from strict compliance with all other pertinent Sections of the Municipal code and other applicable regulations.

BLDG. 37

6/8/94

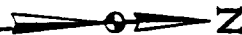
APPROVED

#3757

LOS ANGELES FIRE DEPARTMENT
BUREAU OF FIRE PREVENTION

BY

[Signature]



ASPHALT

COOLING TOWER

FIRE HYDRANT

CONCRETE PAD

BOILER EXHAUST STACK

PUMP ROOM

COMPRESSOR

DAY TANK (ABOVEGROUND)

50,000 GALLON FUEL OIL TANKS

AIR COOLER WITH OVERHEAD LINES

SUMP

ASPHALT

FILL CAPS
50K
FUEL OIL

30' 9"

APPROXIMATE SCALE



• **VADOSE ZONE WELL LOCATION**

DOUGLAS AIRCRAFT COMPANY
9503 S. NORMANDIE AVENUE
TORRANCE, CA.

SPECIFICATION NO. C6-93-02

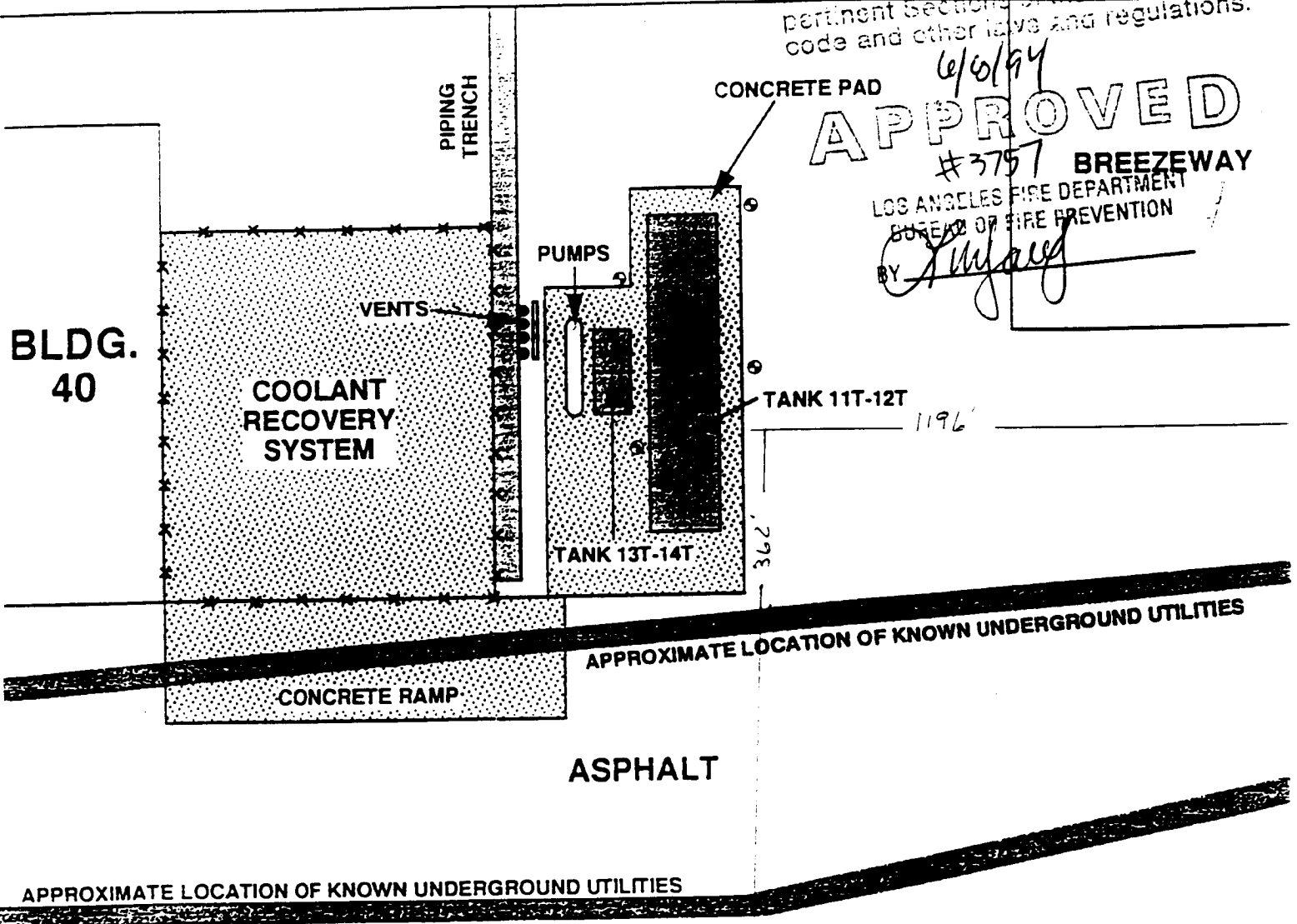
FIGURE 1

UNDERGROUND STORAGE TANK 19T AND 20T LOCATIONS

BLDG. 1

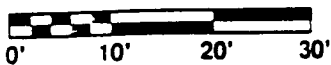
SUBJECT TO FIELD INSPECTION

The approval of these plans and/or specifications does not exempt them from strict compliance with all other pertinent sections of the Municipal code and other laws and regulations.



6/6/94
APPROVED
#3757
LOS ANGELES FIRE DEPARTMENT
BUREAU OF FIRE PREVENTION
BY *[Signature]*

APPROXIMATE SCALE



9 VADOSE ZONE WELL LOCATION

SPECIFICATION NO. C6-93-01

DOUGLAS AIRCRAFT COMPANY
19503 S. NORMANDIE AVENUE
TORRANCE, CA.

FIGURE 1

UNDERGROUND STORAGE TANK 11T-14T LOCATIONS

APPENDIX B
SCAQMD RULE 1166
MONITORING RECORDS



South Coast
AIR QUALITY MANAGEMENT DISTRICT

9150 FLAIR DRIVE, EL MONTE, CA 91731 (818) 572-6200

November 1, 1991

Maness Environmental Services Inc
P. O. Box 7917
Long Beach, CA 90807-0917

Attention: David Herrera

(213) 595-4555
APPLICATION NO. 257250
COMPANY ID 69389

RULE 1166 CONTAMINATED SOIL MITIGATION PLAN

Reference is made to your Application (A/N 257250) received on October 22, 1991, for the excavation and handling of VOC-contaminated soil at various locations within the South Coast Air Quality Management District.

Your excavation and mitigation plan has been approved under the provisions of Rule 1166 of the Rules and Regulations of the SCAQMD and is subject to the following conditions.

PLAN CONDITIONS:

PROPERTY
OWNER'S
INITIALS

1. AT LEAST 24 HOURS PRIOR TO COMMENCING EXCAVATION OF UNDERGROUND TANKS WHICH HAVE STORED VOLATILE ORGANIC COMPOUNDS (VOC), THE EXECUTIVE OFFICER SHALL BE NOTIFIED OF ALL INFORMATION ITEMS LISTED IN RULE 1166(c)(1)(A) AND THE NAME OF THE COMPANY PERFORMING THE EXCAVATION.

[JGH]

IF VOC-CONTAMINATED SOIL IS DETECTED, THE EXECUTIVE OFFICER SHALL BE NOTIFIED AGAIN WITHIN 24 HOURS. BOTH NOTIFICATIONS SHALL BE MADE BY CALLING (818) 572-6195, MONDAY THROUGH FRIDAY, BETWEEN 8 A.M. AND 5 P.M.

2. THIS PLAN IS VALID ONLY FOR THE EXCAVATION AND HANDLING OF A MAXIMUM OF 2000 CUBIC YARDS OF VOC-CONTAMINATED SOIL AT EACH SITE. EXCAVATION OF A GREATER AMOUNT REQUIRES SUBMITTAL OF A SITE SPECIFIC RULE 1166 EXCAVATION PLAN.

[JGH]

3. ALL VOC-CONTAMINATED SOIL SHALL BE DISPOSED, BACKFILLED, OR REMOVED FROM THE SITE WITHIN 40 DAYS AFTER IT HAS BEEN EXCAVATED FROM THE AFFECTED AREAS. [25]

RECORDS OF DISPOSAL OR TREATMENT OF VOC-CONTAMINATED SOIL SHALL BE MAINTAINED FOR A PERIOD OF TWO (2) YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

4. THE OWNER OR OPERATOR SHALL PREPARE A WRITTEN PLAN WHICH INCLUDES METHODS TO TREAT THE VOC-CONTAMINATED SOIL, SCHEDULES TO HAUL THE SOIL AWAY, BACKFILL THE SOIL, OR OTHER MEANS OF DISPOSAL. THE PLAN SHALL ALSO INDICATE THAT THE NECESSARY PERMITS HAVE BEEN OBTAINED OR ARE IN THE PROCESS OF BEING OBTAINED. SUCH A PLAN SHALL BE PREPARED NO LATER THAN 5 DAYS AFTER THE COMPLETION OF THE EXCAVATION, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. [26]
5. THE EXCAVATION SHALL BE CONDUCTED IN 50 FT. X 50 FT. OR SMALLER SECTIONS TO MINIMIZE EXPOSURE OF SOIL POTENTIALLY CONTAMINATED WITH VOC. [27]
6. THE EXCAVATION OPERATOR SHALL HAVE ON SITE AN ORGANIC VAPOR ANALYZER (OVA) USING FLAME IONIZATION OR PHOTO IONIZATION OR OTHER ANALYTICAL METHODS COMPLYING WITH 40 CFR PART 60 APPENDIX A, EPA METHOD 21 SECTION 3.1.1.a., "DETERMINATION OF VOLATILE ORGANIC COMPOUND LEAKS, MONITORING INSTRUMENT SPECIFICATIONS". [28]
7. THE OVA SHALL BE CAPABLE OF BEING CALIBRATED USING HEXANE AT A RANGE OF 0 PARTS PER MILLION BY VOLUME (PPMV) TO 50 PPMV AND AT A DETECTION RANGE OF AT LEAST 30 PPMV TO 1100 PPMV. THE OVA SHALL BE INITIALLY CALIBRATED USING HEXANE BY THE MANUFACTURER AND CALIBRATED AT LEAST ONCE AT THE BEGINNING OF EACH WORKING DAY WITH THE PROCEDURES SPECIFIED BY THE MANUFACTURER. [29]
8. DURING EXCAVATION, MONITORING SHALL BE CONDUCTED TO MEASURE VOC'S AT A DISTANCE NO MORE THAN 3 INCHES ABOVE THE FRESHLY DUG SOIL BY USING AN ORGANIC VAPOR ANALYZER (OVA) DESCRIBED UNDER CONDITION 7. THIS MEASUREMENT SHALL BE MADE FOR EVERY LOAD OF SOIL AND SHALL BE TAKEN NO LONGER THAN THREE (3) MINUTES AFTER EACH LOAD OF SOIL IS EXCAVATED. [30]
9. WRITTEN RECORDS OF OVA MONITORING AND CALIBRATIONS REQUIRED ABOVE SHALL BE KEPT IN A FORMAT APPROVED BY THE DISTRICT. A TYPICAL FORMAT IS ATTACHED WITH THIS PLAN. [31]
10. VOC-CONTAMINATED SOIL IS A SOIL WHICH REGISTERS 50 PPMV OR MORE WHEN MEASURED WITH AN ORGANIC VAPOR ANALYZER (CALIBRATED USING HEXANE) AT A DISTANCE OF NO MORE THAN THREE INCHES ABOVE EXCAVATED AND EXPOSED SOIL. [32]

11. IF THE OVA MEASUREMENT IS BETWEEN 50 PPMV AND 1000 PPMV, [RL]
- A) THE WORKING AREA SHALL BE IMMEDIATELY SPRAYED WITH WATER, OR COVERED WITH CLEAN SOIL OR TREATED WITH A DISTRICT APPROVED SUPPRESSANT, AND
 - B) EACH VOC-CONTAMINATED LOAD OF SOIL SHALL BE SPRAYED WITH WATER OR TREATED WITH A DISTRICT APPROVED VAPOR SUPPRESSANT AND BE STOCKPILED SEPARATELY.
12. IF THE OVA MEASUREMENT EQUALS OR IS GREATER THAN 1000 PPMV, [RL]
- A) THE WORKING AREA SHALL BE SPRAYED WITH WATER OR DISTRICT APPROVED VAPOR SUPPRESSANTS OR COVERED WITH AT LEAST 4 INCHES OF CLEAN SOIL, AND
 - B) THE SOIL DUG UNDER THE ABOVE CONDITIONS SHALL BE STORED IN DISTRICT APPROVED CONTAINERS, AND
 - C) IN LIEU OF CONTAINERS, OTHER MITIGATION MEASURES MAY BE SUBSTITUTED WITH PRIOR WRITTEN APPROVAL OF THE EXECUTIVE OFFICER, IF THE OWNER OR OPERATOR CAN DEMONSTRATE THAT AN ALTERNATIVE MEASURE IS EQUALLY OR MORE EFFECTIVE IN REDUCING VOC EMISSIONS. PRIOR TO THE EXECUTIVE OFFICER'S APPROVAL, THE OWNER OR OPERATOR SHALL SUBMIT A COMPREHENSIVE WRITTEN STUDY WHICH COMPARES QUANTITATIVELY THE ESTIMATED VOC EMISSIONS DIFFERENCE BETWEEN THE ALTERNATIVE MITIGATION MEASURES.
13. ALL VOC-CONTAMINATED SOIL SHALL BE STOCKPILED SEPARATELY FROM NON VOC-CONTAMINATED SOIL AND KEPT MOIST, COVERED OR SPRAYED WITH WATER OR WITH A FUME SUPPRESSANT TO PREVENT EMISSIONS OF PARTICULATES OR VOC. [RL]
14. AT THE END OF EACH WORKING DAY, ALL STOCKPILES SHALL BE COVERED WITH A HEAVY DUTY CONTINUOUS PLASTIC SHEET(S), JOINED AT THE SEAMS, AND SECURELY ANCHORED TO PREVENT ANY EXPOSURE OF SOIL TO THE ATMOSPHERE. [RL]
15. A STOCKPILE SHALL NOT CONTAIN MORE THAN 450 CUBIC YARDS OF SOIL. [RL]
16. WITHIN 5 DAYS AFTER THE EXCAVATION IS COMPLETED AT EACH SITE, THE WRITTEN RECORDS UNDER CONDITIONS 4 AND 9 SHALL BE SUBMITTED TO THE DISTRICT AT THE FOLLOWING ADDRESS. [RL]

SCAQMD
ENFORCEMENT DIV.
9150 FLAIR DR.
EL MONTE CA. 91731

- 7/1/94
DATE

BOE-C6-0016368

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
RULE 1166 SOIL MONITORING RECORDS

SITE INFORMATION

OWNER: Logies Aircraft
ADDRESS: Vonmevils
CITY: Vonmevils
ZIP CODE: _____
DATE OF EXCAVATION: 7-1-91

MONITORING INFORMATION

COMPANY: MANESS ENV
NAME OF PERSON: Carl Farber
MONITOR MFG: _____
MODEL NO: _____
CALIBRATION GAS: _____

TIME	VOC CONCENTRATION (ppmV)		COMMENTS
	EACH LOAD AS REMOVED	STOCKPILE SURFACE	
10-30		⊕	
10-45		⊕	
11-00		⊕	
11-15		⊕	
11-30		⊕	
11-45		⊕	
12-00		⊕	
12-15		⊕	
12-30		⊕	
1-00		⊕	
1-30		⊕	
2-00		⊕	

SIGNATURE: _____

DATE: 7-1-91

$$A \setminus N$$

7/5/94

SIGNED:

Mark Miller

2/5/94

APPENDIX C

HAZARDOUS WASTE MANIFEST

P.O.# 7711

State of California—Environmental Protection Agency
Form Approved OMB No. 2030-0039 (Expires 9-30-94)
Reproducible or type. Form designed for use on 8 1/2" (12-pitch) typewriter.

See instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

93505901
IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802. WITHIN CALIFORNIA, CALL 1-800-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CAD086510005		Manifest Document No. 85901		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address Douglas Aleron Company Attn: Rob Tuell M/S C6-89 19503 South Normandie Avenue, Torrance, CA 90502											
4. Generator's Phone (310) 533-7926 or (310) 533-7231											
5. Transporter 1 Company Name Laidlaw Environmental Services of CA, Inc.											
6. US EPA ID Number CAD000083121											
7. Transporter 2 Company Name											
8. US EPA ID Number											
9. Designated Facility Name and Site Address Chem-Tech Systems, Inc. 3650 East 20th Street Los Angeles, CA 90023											
10. US EPA ID Number CAT080033681											
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) (Rinse water from diesel tanks and hydraulic oil) Non-RCRA hazardous waste liquid						12. Containers No. Type 001 TT		13. Total Quantity 13360		14. Unit Wt/Vol P.	
b. CERTIFICATE OF TREATMENT/RECYCLING CHEM-TECH SYSTEMS, INC. certifies that the liquid waste received with this manifest will be treated to standards mandated by the FEDERAL CLEAN WATER ACT and the Los Angeles County Sanitation Districts' effluent requirements. Treatment/recycling is performed under permits granted by the California Department of Toxic Substances Control, Environmental Protection Agency, Provisions of the Resource Conservation and Recovery Act (RCRA) of 1976, and applicable federal and state regulations. The generator's responsibility for this liquid waste											
11a) Rinse water from diesel tanks and hydraulic oil tanks											
15. Special Handling Instructions and Additional Information 24 Hour emergency (GENERAL MANAGER) 424-9300 (Chemtrec). DOT ERG# 11a)31											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state and international laws. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.											
Printed/Typed Name Robert G. Tuell, Jr.				Signature <i>Robert G. Tuell, Jr.</i>		Month 07		Day 05		Year 94	
17. Transporter 1 Acknowledgment of Receipt of Materials Printed/Typed Name Kome Hunt				Signature <i>Kome Hunt</i>		Month 07		Day 05		Year 94	
18. Transporter 2 Acknowledgment of Receipt of Materials Printed/Typed Name				Signature		Month		Day		Year	
19. Discrepancy Indication Space											
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest as noted in item 19. Printed/Typed Name BRET KYLE											
Signature <i>Bret Kyle</i>						Month 07		Day 05		Year 94	

DO NOT WRITE BELOW THIS LINE.

Yellow: TSDP SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS.
(Generators who submit hazardous waste for transport out-of-state, produce completed copy of this copy and send to DTSC within 30 days.)

APPENDIX D

MARINE CHEMIST CERTIFICATE

Thomas D. Beck & Assoc., Inc.

ba HARBOR TESTING LABORATORY 40443

24 HOUR PHONE: (310) 492-9646

MARINE CHEMIST CERTIFICATE

Serial # 6717

6 JULY 99

MANESS ENV.

DOUGLAS AIRCRAFT

Survey Requested by

SEE BELOW

Vessel Owner or Agent

UNDERGROUND TANK

Vessel

DIESEL

Type of Vessel

LEL, O₂, V/VIAL

Date

19503 S. NORMANDIE

Specific Location of Vessel

1215 HRS

Last Cargo

Tests Performed

Time Survey Completed

6 UNDERGROUND TANKS
MARKED WITH YELLOW
SPRAY PAINT:

~~XXXXXXXXXX~~

6717.1; 6717.2; 6717.3

6717.4; 6717.5; 6717.6

TESTED 00% LEL

20.8% O₂/VIAL

SAFE FOR HOT WORK
NOT SAFE FOR WORKERS
TO ENTER. NOT TESTED
FOR SPECIFIC TOXICS.

TANKS HAVE BEEN CLEANED.

MS4 MICROBARD (CALIBRATED) @ 0800 HRS 6 JULY 99

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

QUALIFICATIONS: Transfer of ballast or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsection 6-3.2)

SAFE FOR WORKERS: Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

NOT SAFE FOR WORKERS: Means that in the compartment or space so designated, the requirements of Safe for Workers have not been met.

ENTER WITH RESTRICTIONS: Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and time are as specified.

SAFE FOR HOT WORK: Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued.

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Received

Signed

Marine Chemist

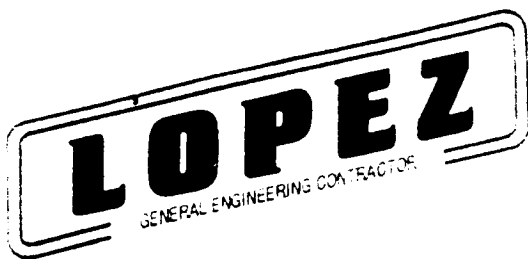
Certificate No.

MANESS ENV. 7/6/99

THOMAS D. BECK
TOM BECK

APPENDIX E

TANK DISPOSAL CERTIFICATE



July 12, 1994

Maness Environmental
ATTN: Scott Hultner
1101 E. Spring Street
Long Beach, CA 90807-0917

Dear Scott,

SUBJECT: TANK DESTRUCTION CERTIFICATE

This letter is to certify that tank numbers 6717-1, 6717-2, 6717-3 & 6717-4, 6717-5 & 6717-6 in accordance with Marine Chemist Certificates, Serial Numbers 6717-1, 6717-2, 6717-3 & 6717-4, 6717-5 & 6717-6. Tanks received from McDonnell Douglas, Torrance, California.

Tanks were torched and cut into scrap classification of #1 prepared scrap, the entire tanks were cut into pieces no longer than (5) five feet or wider than 1 1/2 feet in size, therefore rendering this tank into scrap steel and sold as such.

Burner(s): David Martinez

Luis Vasquez

Rafael Vasquez

Elaine R. Bailey
Authorized Signature

July 12, 1994
Date

Customer Name : Maness Environmental

Customer P.O.#: Verbal - Scott Hultner

Not Valid without the corporate seal and signature

APPENDIX F

LABORATORY REPORTS

Jones Environmental

TESTING LABORATORIES

LABORATORY RESULTS

Client:	Maness Environmental	Report Date: 07/08/94
Client Address:	1101 E. Spring Street	JEL Ref. No.: 1675
	Long Beach, CA 90807	Maness Ref. No.:
Contact:	Scott Hultner	Date Sampled: 07/07/94
		Date Received: 07/07/94
Project:	Douglas Aircraft	Date Analyzed: 07/07/94
Project Address:	Torrance, CA	Physical State: Soil

EPA 418.1 - Total Recoverable Petroleum Hydrocarbons

Sample ID	Concentration (mg/Kg)	Reporting Limits (mg/Kg)
T13-7	7900	10.
T14-7	37	10.
T11/12-14	50	10.
T11-14	ND	10.
T12-14	ND	10.
SP-1	ND	10.
SP-2	2100	10.
SP-3	4600	10.
SP-4	ND	10.
SP-5	ND	10.
SP-6	ND	10.
SP-7	170	10.
SP-8	360	10.
SP-9	ND	10.
SP-10	260	10.
SP-11	ND	10.
T20A-16	ND	10.
T20B-16	ND	10.
T20C-16	ND	10.
T19A-16	ND	10.
T19B-16	35	10.
T19C-16	52	10.

ND = Not Detected

Jones Environmental

TESTING LABORATORIES

LABORATORY RESULTS

Client:	Maness Environmental	Report Date: 07/08/94
Client Address:	1101 E. Spring Street	JEL Ref. No.: 1675
	Long Beach, CA 90807	Maness Ref. No.:
Contact:	Scott Hultner	Date Sampled: 07/07/94
		Date Received: 07/07/94
Project:	Douglas Aircraft	Date Analyzed: 07/07/94
Project Address:	Torrance, CA	Physical State: Soil

EPA 418.1 - Total Recoverable Petroleum Hydrocarbons

QUALITY CONTROL INFORMATION

Sample Spiked: T19A-16

<u>Parameters</u>	<u>MS Recovery</u>	<u>MSD Recovery</u>	<u>RPD</u>	<u>Acceptable Range</u>
Diesel	110%	111%	1.5%	65-125%

Sample Spiked: T19C-16

<u>Parameters</u>	<u>MS Recovery</u>	<u>MSD Recovery</u>	<u>RPD</u>	<u>Acceptable Range</u>
Diesel	103%	108%	4.5%	65-125%

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

Jones Environmental

TESTING LABORATORIES

LABORATORY RESULTS

Client:	Maness Environmental	Report Date: 07/08/94
Client Address:	1101 E. Spring Street	JEL Ref. No.: 1675
	Long Beach, CA 90807	Maness Ref. No.:
Contact:	Scott Hultner	Date Sampled: 07/07/94
		Date Received: 07/07/94
Project:	Douglas Aircraft	Date Analyzed: 07/07/94
Project Address:	Torrance, CA	Physical State: Soil

Modified EPA 8015 - Semi-Volatile Hydrocarbons (Diesel)

Sample ID	Concentration (mg/Kg)	Reporting Limits (mg/Kg)
SP-4	ND	10.
SP-5	ND	10.
SP-6	ND	10.
SP-7	ND	10.
SP-8	ND	10.
SP-9	ND	10.
SP-10	ND	10.
SP-11	ND	10.
T20A-16	ND	10.
T20B-16	ND	10.
T20C-16	ND	10.
T19A-16	ND	10.
T19B-16	ND	10.
T19C-16	ND	10.

ND = Not Detected

Jones Environmental

TESTING LABORATORIES

LABORATORY RESULTS

Client:	Maness Environmental	Report Date:	07/08/94
Client Address:	1101 E. Spring Street Long Beach, CA 90807	JEL Ref. No.:	1675
		Maness Ref. No.:	
Contact:	Scott Hultner	Date Sampled:	07/07/94
		Date Received:	07/07/94
Project:	Douglas Aircraft	Date Analyzed:	07/07/94
Project Address:	Torrance, CA	Physical State:	Soil

EPA 8020 - Volatile Aromatic Hydrocarbons					
Sample ID	Concentration				Reporting
	(ug/Kg)				Limits
	Benzene	Toluene	Ethylbenzene	Xylenes	(ug/Kg)
T13-7	ND	ND	ND	ND	5.0
T14-7	ND	ND	ND	ND	5.0
T11/12-14	ND	ND	ND	ND	5.0
T11-14	ND	ND	ND	ND	5.0
T12-14	ND	ND	ND	ND	5.0
SP-1	ND	ND	ND	ND	5.0
SP-2	ND	ND	ND	ND	5.0
SP-3	ND	ND	ND	ND	5.0
SP-4	ND	ND	ND	ND	5.0
SP-5	ND	ND	ND	ND	5.0
SP-6	ND	ND	ND	ND	5.0
SP-7	ND	ND	ND	ND	5.0
SP-8	ND	ND	ND	ND	5.0
SP-9	ND	ND	ND	ND	5.0
SP-10	ND	ND	ND	ND	5.0
SP-11	ND	ND	ND	ND	5.0
T20A-16	ND	ND	ND	ND	5.0
T20B-16	ND	ND	ND	ND	5.0
T20C-16	ND	ND	ND	ND	5.0
T19A-16	ND	ND	ND	ND	5.0
T19B-16	ND	ND	ND	ND	5.0
T19C-16	ND	ND	ND	ND	5.0

ND = Not Detected

Jones Environmental

TESTING LABORATORIES

LABORATORY RESULTS

Client:	Maness Environmental	Report Date:	07/08/94
Client Address:	1101 E. Spring Street Long Beach, CA 90807	JEL Ref. No.:	1675
		Maness Ref. No.:	
Contact:	Scott Hultner	Date Sampled:	07/07/94
		Date Received:	07/07/94
Project:	Douglas Aircraft	Date Analyzed:	07/07/94
Project Address:	Torrance, CA	Physical State:	Soil

EPA 8020 - Volatile Aromatic Hydrocarbons

QUALITY CONTROL INFORMATION

Sample Spiked: T19A-16

<u>Parameters</u>	<u>MS Recovery</u>	<u>MSD Recovery</u>	<u>RPD</u>	<u>Acceptable Range</u>
Toluene	101%	105%	3.2%	65-125%
o-Xylene	100%	105%	4.3%	65-125%

Sample Spiked: T19C-16

<u>Parameters</u>	<u>MS Recovery</u>	<u>MSD Recovery</u>	<u>RPD</u>	<u>Acceptable Range</u>
Toluene	102%	103%	0.7%	65-125%
o-Xylene	102%	102%	0.1%	65-125%

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

Jones Environmental

TESTING LABORATORIES

LABORATORY REPORT


Client:	Maness Environmental	Report Date: 07/08/94
Client Address:	1101 E. Spring Street Long Beach, CA 90807	JEL Ref. No.: 1675
		Maness Ref. No.:
Contact:	Scott Hultner	Date Sampled: 07/07/94
		Date Received: 07/07/94
Project:	Douglas Aircraft	Date Analyzed: 07/07/94
Project Address:	Torrance, CA	Physical State: Soil

22 soil samples were received sealed, chilled, and intact.

22 soil samples were analyzed for volatile aromatic hydrocarbons by EPA 8020, and for total recoverable petroleum hydrocarbons by EPA 418.1.

14 soil samples were analyzed for semi-volatile hydrocarbons by modified 8015 as diesel.

Approval: _____


Steve Jones, Ph.D.
Laboratory Manager

FULLERTON ENVIRONMENTAL

LABORATORY RESULTS

Client:	Jones Environmental	Report Date:	07/13/94
Client Address:	P. O. Box 5387	FEL Ref. No.:	1579
	Fullerton, CA 92635	Client Ref. No.:	Maness Environmental
Attn:	Steve Jones	Date Sampled:	07/07/94
		Date Received:	07/08/94
Project:	Douglas Aircraft	Date Extracted:	07/08/94
Project Address:	19503 S. Normandie	Date Analyzed:	07/12/94
	Torrance, CA	Physical State:	Soil

EPA 7420 - Total Lead by Flame AA

<u>Sample ID</u>	<u>Concentration</u> <u>(mg/Kg)</u>	<u>Reporting</u> <u>Limits</u> <u>(mg/Kg)</u>
T11/12-14	ND	10
T11-14	ND	10
T12-14	ND	10
SP-1	ND	10
SP-2	ND	10
SP-3	ND	10
SP-4	ND	10
SP-5	ND	10
SP-6	ND	10
SP-7	ND	10
SP-8	ND	10
SP-9	ND	10
SP-10	ND	10
SP-11	ND	10
T20-A16	ND	10
T20-B16	ND	10
T20-C16	ND	10
T19-A16	ND	10
T19-B16	ND	10
T19-C16	ND	10

ND = Not Detected

FULLERTON ENVIRONMENTAL

LABORATORY RESULTS

Client:	Jones Environmental	Report Date:	07/14/94
Client Address:	P. O. Box 5387	FEL Ref. No.:	1600
	Fullerton, CA 92635	Client Ref. No.:	Maness
Attn:	Steve Jones	Date Sampled:	07/07/92
		Date Received:	07/12/94
		Date Extracted:	07/13/94
Project:	Dougias Aircraft	Date Analyzed:	07/13/94
Project Address:	Torrance, CA	Physical State:	Soil

EPA 7420 - Total Lead by Flame AA

<u>Sample ID</u>	<u>Concentration</u> <u>(mg/Kg)</u>	<u>Reporting</u> <u>Limits</u> <u>(mg/Kg)</u>
T13-7	ND	10
T14-7	ND	10

ND = Not Detected

FULLERTON ENVIRONMENTAL
QUALITY CONTROL INFORMATION

Client:	Jones Environmental	Report Date:	07/13/94
Client Address:	P. O. Box 5387	FEL Ref. No.:	1579
	Fullerton, CA 92635	Client Ref. No.:	Maness Environmental
Attn:	Steve Jones	Date Sampled:	07/07/94
		Date Received:	07/08/94
Project:	Douglas Aircraft	Date Extracted:	07/08/94
Project Address:	19503 S. Normandie	Date Analyzed:	07/12/94
	Torrance, CA	Physical State:	Soil

EPA 7420 - Total Lead by Flame AA

<u>Parameter</u>	<u>LMB</u> <u>(mg/Kg)</u>	<u>LCS</u> <u>Recovery (%)</u>
Lead	ND	102

Sample Spiked: FEL 1579-18

<u>Parameter</u>	<u>MS</u> <u>Recovery (%)</u>	<u>MSD</u> <u>Recovery (%)</u>	<u>RPD</u>	<u>Acceptability</u> <u>Range (%)</u>	<u>RPD</u> <u>Range (%)</u>
Lead	101	100	0.79	80 - 120	20

LMB = Laboratory Method Blank
LCS = Laboratory Control Sample
ND = Not Detected

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference

FULLERTON ENVIRONMENTAL
QUALITY CONTROL INFORMATION

Client:	Jones Environmental	Report Date:	07/14/94
Client Address:	P. O. Box 5387	FEL Ref. No.:	1600
	Fullerton, CA 92635	Client Ref. No.:	Maness
Attn:	Steve Jones	Date Sampled:	07/07/92
		Date Received:	07/12/94
		Date Extracted:	07/13/94
Project:	Douglas Aircraft	Date Analyzed:	07/13/94
Project Address:	Torrance, CA	Physical State:	Soil

EPA 7420 - Total Lead by Flame AA

<u>Parameter</u>	<u>LMB</u> <u>(mg/Kg)</u>	<u>LCS</u> <u>Recovery (%)</u>
Lead	ND	104

Sample Spiked: FEL 1600-1

<u>Parameter</u>	<u>MS</u> <u>Recovery (%)</u>	<u>MSD</u> <u>Recovery (%)</u>	<u>RPD</u>	<u>Acceptability</u> <u>Range (%)</u>	<u>RPD</u> <u>Range (%)</u>
Lead	103	101	2.1	80 - 120	20

LMB = Laboratory Method Blank
LCS = Laboratory Control Sample
ND = Not Detected

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference

Fullerton Environmental Laboratory

LABORATORY REPORT

Client:	Jones Environmental	Report Date:	07/13/94
Client Address:	P. O. Box 5387	FEL Ref. No.:	1579
	Fullerton, CA 92635	Client Ref. No.:	Maness Environmental
Attn:	Steve Jones		
Project:	Douglas Aircraft	Date Sampled:	07/07/94
Project Address:	19503 S. Normandie	Date Received:	07/08/94
	Torrance, CA	Date Analyzed:	07/12/94
		Physical State:	Soil

ANALYSES REQUESTED

1. EPA 7420 - Total Lead by Flame AA

Approval:


Laboratory Manager
Beth Riley

Fullerton Environmental Laboratory

LABORATORY REPORT

Client: Jones Environmental
Client Address: P. O. Box 5387
Fullerton, CA 92635

Report Date: 07/14/94
FEL Ref. No.: 1600
Client Ref. No.: Maness

Attn: Steve Jones

Date Sampled: 07/07/92

Project: Douglas Aircraft
Project Address: Torrance, CA

Date Received: 07/12/94


Date Analyzed: 07/13/94

Physical State: Soil

ANALYSES REQUESTED

1. EPA 7420 - Total Lead by Flame AA

Approval:


Laboratory Manager
Beth Riley

Jones Environmental

TESTING LABORATORIES

LABORATORY RESULTS

Client: Maness Environmental
Client Address: 1101 E. Spring Street
Long Beach, CA 90807

Report Date: 07/15/94
JEL Ref. No.: 1681
Maness Ref. No.:

Contact: Scott Hultner

Date Sampled: 07/14/94
Date Received: 07/14/94

Project: Douglas Aircraft
Project Address: Torrance, CA

Date Analyzed: 07/14/94
Physical State: Soil

EPA 418.1 - Total Recoverable Petroleum Hydrocarbons

Sample ID	Concentration (mg/Kg)	Reporting Limits (mg/Kg)
HA1-15	240	10.
HA2-5	ND	10.
HA2-10	ND	10.
HA2-15	ND	10.
HA3-5	ND	10.
HA3-10	ND	10.
HA3-15	63	10.
HA4-15	32	10.
HA1-9	700	10.
HA1-12	520	10.
HA4-9	60	10.
HA4-12	730	10.

ND = Not Detected

Jones Environmental

TESTING LABORATORIES

LABORATORY RESULTS

Client:	Maness Environmental	Report Date: 07/15/94
Client Address:	1101 E. Spring Street	JEL Ref. No.: 1681
	Long Beach, CA 90807	Maness Ref. No.:
Contact:	Scott Hultner	Date Sampled: 07/14/94
Project:	Douglas Aircraft	Date Received: 07/14/94
Project Address:	Torrance, CA	Date Analyzed: 07/14/94
		Physical State: Soil

EPA 418.1 - Total Recoverable Petroleum Hydrocarbons

QUALITY CONTROL INFORMATION

Sample Spiked: HA2-15

Parameters	MS Recovery	MSD Recovery	RPD	Acceptable Range
Diesel	105%	97%	7.5%	65-125%

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

Jones Environmental

TESTING LABORATORIES

LABORATORY RESULTS

Client: Maness Environmental
Client Address: 1101 E. Spring Street
Long Beach, CA 90807

Report Date: 07/15/94
JEL Ref. No.: 1681
Maness Ref. No.:

Contact: Scott Hultner

Date Sampled: 07/14/94

Date Received: 07/14/94

Project: Douglas Aircraft

Date Analyzed: 07/14/94

Project Address: Torrance, CA

Physical State: Soil

EPA 8020 - Volatile Aromatic Hydrocarbons

Sample ID	Concentration (ug/Kg)				Reporting Limits (ug/Kg)
	Benzene	Toluene	Ethylbenzene	Xylenes	
HA1-15	ND	ND	ND	ND	5.0
HA2-5	ND	ND	ND	ND	5.0
HA2-10	ND	ND	ND	ND	5.0
HA2-15	ND	ND	ND	ND	5.0
HA3-5	ND	ND	ND	ND	5.0
HA3-10	ND	ND	ND	ND	5.0
HA3-15	ND	ND	ND	ND	5.0
HA4-15	ND	ND	ND	ND	5.0
HA1-9	ND	ND	ND	ND	5.0
HA1-12	ND	ND	ND	ND	5.0
HA4-9	ND	ND	ND	ND	5.0
HA4-12	ND	ND	ND	ND	5.0

ND = Not Detected

Jones Environmental

TESTING LABORATORIES

LABORATORY RESULTS

Client: Maness Environmental
Client Address: 1101 E. Spring Street
Long Beach, CA 90807

Report Date: 07/15/94
JEL Ref. No.: 1681
Maness Ref. No.:

Contact: Scott Hultner

Date Sampled: 07/14/94

Project: Douglas Aircraft

Date Received: 07/14/94

Project Address: Torrance, CA

Date Analyzed: 07/14/94

Physical State: Soil

EPA 8020 - Volatile Aromatic Hydrocarbons

QUALITY CONTROL INFORMATION

Sample Spiked: HA4-15

<u>Parameters</u>	<u>MS Recovery</u>	<u>MSD Recovery</u>	<u>RPD</u>	<u>Acceptable Range</u>
Toluene	99%	102%	2.8%	65-125%
o-Xylene	98%	101%	3.4%	65-125%

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

FULLERTON ENVIRONMENTAL

LABORATORY RESULTS

Client:	Jones Environmental	Report Date:	07/19/94
Client Address:	P. O. Box 5387	FEL Ref. No.:	1618
	Fullerton, CA 92635	Client Ref. No.:	JEL 1681/Maness
Attn:	Steve Jones	Date Sampled:	07/14/94
		Date Received:	07/15/94
		Date Extracted:	07/18/94
Project:	Douglas Aircraft	Date Analyzed:	07/18/94
Project Address:	Torrance, CA	Physical State:	Soil

EPA 7420 - Total Lead by Flame AA

<u>Sample ID</u>	<u>Concentration</u> <u>(mg/Kg)</u>	<u>Reporting</u> <u>Limits</u> <u>(mg/Kg)</u>
HA 1-15	ND	10
HA 2-5	ND	10
HA 2-10	ND	10
HA 2-15	ND	10
HA 3-5	ND	10
HA 3-10	ND	10
HA 3-15	ND	10
HA 4-15	ND	10
HA 1-9	ND	10
HA 1-12	ND	10
HA 4-9	ND	10
HA 4-12	ND	10

ND = Not Detected

FULLERTON ENVIRONMENTAL
QUALITY CONTROL INFORMATION

Client:	Jones Environmental	Report Date:	07/19/94
Client Address:	P. O. Box 5387	FEL Ref. No.:	1618
	Fullerton, CA 92635	Client Ref. No.:	JEL 1681/Maness
Attn:	Steve Jones	Date Sampled:	07/14/94
		Date Received:	07/15/94
Project:	Douglas Aircraft	Date Extracted:	07/18/94
Project Address:	Torrance, CA	Date Analyzed:	07/18/94
		Physical State:	Soil

EPA 7420 - Total Lead by Flame AA

<u>Parameter</u>	<u>LMB</u> <u>(mg/Kg)</u>	<u>LCS</u> <u>Recovery (%)</u>
Lead	ND	112

Sample Spiked: FEL 1611-2

<u>Parameter</u>	<u>MS</u> <u>Recovery (%)</u>	<u>MSD</u> <u>Recovery (%)</u>	<u>RPD</u>	<u>Acceptability</u> <u>Range (%)</u>	<u>RPD</u> <u>Range (%)</u>
Lead	113	111	1.79	80 - 120	20

LMB = Laboratory Method Blank
LCS = Laboratory Control Sample
ND = Not Detected

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference

Jones Environmental

TESTING LABORATORIES

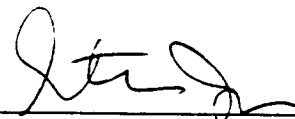
LABORATORY REPORT

Client:	Maness Environmental	Report Date: 07/15/94
Client Address:	1101 E. Spring Street	JEL Ref. No.: 1681
	Long Beach, CA 90807	Maness Ref. No.: 40443
Contact:	Scott Hultner	Date Sampled: 07/14/94
		Date Received: 07/14/94
Project:	Douglas Aircraft	Date Analyzed: 07/14/94
Project Address:	Torrance, CA	Physical State: Soil

12 soil samples were received sealed, chilled, and intact.

12 soil samples were analyzed for volatile aromatic hydrocarbons by EPA 8020, and for total recoverable petroleum hydrocarbons by EPA 418.1.

Approval: _____


Steve Jones, Ph.D.
Laboratory Manager

Fullerton Environmental Laboratory

LABORATORY REPORT

Client:	Jones Environmental	Report Date:	07/19/94
Client Address:	P. O. Box 5387	FEL Ref. No.:	1618
	Fullerton, CA 92635	Client Ref. No.:	JEL 1681/Maness
Attn:	Steve Jones	Date Sampled:	07/14/94
		Date Received:	07/15/94
Project:	Douglas Aircraft	Date Analyzed:	07/18/94
Project Address:	Torrance, CA	Physical State:	Soil

ANALYSES REQUESTED

1. EPA 7420 - Total Lead by Flame AA

Approval:


Laboratory Manager
Beth Riley

Jones Environmental

TESTING LABORATORIES

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Maness Environmental	Report Date:	07/21/94
Client Address:	P.O. Box 90939	JEL Ref. No.:	1687
	Long Beach, CA 90809	Client Ref. No.:	40443
Attn:	Attn: Scott Hultner	Date Sampled:	07/20/94
		Date Received:	07/20/94
Project:	Douglas Aircraft	Date Analyzed:	07/20-21/94
Project Address:	Torrance, CA	Physical State:	Soil

EPA 418.1 - Total Recoverable Petroleum Hydrocarbons

<u>Sample ID</u>	<u>Concentration</u> <u>(mg/Kg)</u>	<u>Reporting</u> <u>Limits</u> <u>(mg/Kg)</u>
SP12	ND	10
SP13	130	10
SP14	160	10
SP15	130	10
SP16	330	10
SP17	160	10
SP18	550	10
SP19	140	10
SP20	84	10
SP21	120	10
SP22	270	10
SP23	160	10
SP25	48	10
SP26	260	10
HA4-20	ND	10
HA1-20	ND	10
HA3-20	ND	10

ND = Not Detected

Jones Environmental

TESTING LABORATORIES

JONES ENVIRONMENTAL

QUALITY CONTROL INFORMATION

Client:	Maness Environmental	Report Date:	07/21/94
Client Address:	P.O. Box 90939	JEL Ref. No.:	1687
	Long Beach, CA 90809	Client Ref. No.:	40443
Attn:	Attn: Scott Hultner	Date Sampled:	07/20/94
		Date Received:	07/20/94
Project:	Douglas Aircraft	Date Analyzed:	07/20-21/94
Project Address:	Torrence, CA	Physical State:	Soil

EPA 418.1 - Total Recoverable Petroleum Hydrocarbons

Sample Spiked: HA1-20

<u>Parameter</u>	<u>MS Recovery</u>	<u>MSD Recovery</u>	<u>RPD</u>	<u>Acceptability Range</u>
Diesel	98%	100%	1.6%	65 - 125%

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

Jones Environmental

TESTING LABORATORIES

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Maness Environmental	Report Date:	07/21/94
Client Address:	P.O. Box 90939	JEL Ref. No.:	1687
	Long Beach, CA 90809	Client Ref. No.:	40443
Attn:	Attn: Scott Hultner	Date Sampled:	07/20/94
		Date Received:	07/20/94
Project:	Douglas Aircraft	Date Analyzed:	07/20-21/94
Project Address:	Torrance, CA	Physical State:	Soil

Modified EPA 8015 - Semi-Volatile Hydrocarbons (Diesel)

<u>Sample ID</u>	<u>Concentration</u> <u>(mg/Kg)</u>	<u>Reporting</u> <u>Limits</u> <u>(mg/Kg)</u>
SP12	ND	10.
SP13	ND	10.
SP14	ND	10.
SP15	ND	10.
SP16	ND	10.
SP17	ND	10.
SP18	ND	10.
SP19	ND	10.
SP20	ND	10.
SP21	ND	10.
SP22	ND	10.
SP23	ND	10.
SP24	ND	10.

ND = Not Detected

Jones Environmental

TESTING LABORATORIES
JONES ENVIRONMENTAL

QUALITY CONTROL INFORMATION

Client:	Maness Environmental	Report Date:	07/21/94
Client Address:	P.O. Box 90939	JEL Ref. No.:	1687
	Long Beach, CA 90809	Client Ref. No.:	40443
Attn:	Attn: Scott Hultner	Date Sampled:	07/20/94
		Date Received:	07/20/94
Project:	Douglas Aircraft	Date Analyzed:	07/20-21/94
Project Address:	Torrance, CA	Physical State:	Soil

Modified EPA 8015 - Semi-Volatile Hydrocarbons (Diesel)

Sample Spiked: HA4-20

<u>Parameter</u>	<u>MS Recovery (%)</u>	<u>MSD Recovery (%)</u>	<u>RPD</u>	<u>Acceptability Range (%)</u>
Diesel	116%	111%	4.8%	65 - 125

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference

Jones Environmental

TESTING LABORATORIES

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Maness Environmental	Report Date:	07/21/94
Client Address:	P.O. Box 90939	JEL Ref. No.:	1687
	Long Beach, CA 90809	Client Ref. No.:	40443
Attn:	Attn: Scott Hultner	Date Sampled:	07/20/94
		Date Received:	07/20/94
Project:	Douglas Aircraft	Date Analyzed:	07/20-21/94
Project Address:	Torrence, CA	Physical State:	Soil

EPA 8020 - Volatile Aromatic Hydrocarbons

<u>Sample ID</u>	<u>Concentration (ug/Kg)</u>				<u>Reporting Limits (ug/Kg)</u>
	<u>Benzene</u>	<u>Toluene</u>	<u>Ethylbenzene</u>	<u>Xylenes</u>	
SP-13	ND	ND	ND	ND	5.0
SP-14	ND	ND	ND	ND	5.0
SP-15	ND	ND	ND	ND	5.0
SP-16	ND	ND	ND	ND	5.0
SP-17	ND	ND	ND	ND	5.0
SP-18	ND	ND	ND	ND	5.0
SP-19	ND	ND	ND	ND	5.0
SP-21	ND	ND	ND	ND	5.0
SP-22	ND	ND	ND	ND	5.0
SP-23	ND	ND	ND	ND	5.0
SP-24	ND	ND	ND	ND	5.0
SP-26	ND	ND	ND	ND	5.0
HA4-20	ND	ND	ND	ND	5.0
HA1-20	ND	ND	ND	ND	5.0
HA3-20	ND	ND	ND	ND	5.0

ND = Not Detected

Jones Environmental

TESTING LABORATORIES

JONES ENVIRONMENTAL

QUALITY CONTROL INFORMATION

Client:	Maness Environmental	Report Date:	07/21/94
Client Address:	P.O. Box 90939	JEL Ref. No.:	1687
	Long Beach, CA 90809	Client Ref. No.:	40443
Attn:	Attn: Scott Hultner	Date Sampled:	07/20/94
		Date Received:	07/20/94
Project:	Douglas Aircraft	Date Analyzed:	07/20-21/94
Project Address:	Torrance, CA	Physical State:	Soil

EPA 8020 - Volatile Aromatic Hydrocarbons

Sample Spiked: HA4-20

<u>Parameter</u>	MS <u>Recovery (%)</u>	MSD <u>Recovery (%)</u>	<u>RPD</u>	Acceptability <u>Range (%)</u>
Toluene	97%	100%	3.1%	65 - 125
o-Xylene	95%	100%	5.3%	65 - 125

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

Jones Environmental

TESTING LABORATORIES
JONES ENVIRONMENTAL

LABORATORY REPORT

Client: Maness Environmental
Client Address: P.O. Box 90939
Long Beach, CA 90809

Report Date: 07/21/94
JEL Ref. No.: 1687
Client Ref. No.: 40443

Attn: Attn: Scott Hultner

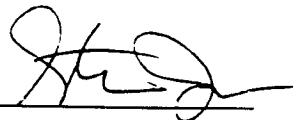
Date Sampled: 07/20/94
Date Received: 07/20/94
Date Analyzed: 07/20-21/94
Physical State: Soil

Project: Douglas Aircraft
Project Address: Torrence, CA

ANALYSES REQUESTED

1. EPA 418.1 - Total Recoverable Petroleum Hydrocarbons
2. EPA 8020 - Volatile Aromatic Hydrocarbons
3. Mod 8015 Diesel - Semi-Volatile Hydrocarbons

Approval:



Steve Jones, Ph.D.
Laboratory Manager

FULLERTON ENVIRONMENTAL

LABORATORY RESULTS

Client:	Jones Environmental	Report Date:	07/27/94
Client Address:	P. O. Box 5387	FEL Ref. No.:	1644
	Fullerton, CA 92635	Client Ref. No.:	40443/Maness
Attn:	Steve Jones	Date Sampled:	07/20/94
		Date Received:	07/24/94
		Date Extracted:	07/22/94
Project:	Douglas Aircraft	Date Analyzed:	07/26/94
Project Address:	Torrance, CA	Physical State:	Soil

EPA 7420 - Total Lead by Flame AA

<u>Sample ID</u>	<u>Concentration</u> <u>(mg/Kg)</u>	<u>Reporting</u> <u>Limits</u> <u>(mg/Kg)</u>
HA 1-20	ND	10
HA 4-20	ND	10
HA 3-20	ND	10

ND = Not Detected

FULLERTON ENVIRONMENTAL
QUALITY CONTROL INFORMATION

Client:	Jones Environmental	Report Date:	07/27/94
Client Address:	P. O. Box 5387	FEL Ref. No.:	1644
	Fullerton, CA 92635	Client Ref. No.:	40443/Maness
Attn:	Steve Jones	Date Sampled:	07/20/94
		Date Received:	07/24/94
		Date Extracted:	07/22/94
Project:	Douglas Aircraft	Date Analyzed:	07/26/94
Project Address:	Torrance, CA	Physical State:	Soil

EPA 7420 - Total Lead by Flame AA

<u>Parameter</u>	<u>LMB (mg/Kg)</u>	<u>LCS Recovery (%)</u>
Lead	ND	106

Sample Spiked: FEL 1644-1

<u>Parameter</u>	<u>MS Recovery (%)</u>	<u>MSD Recovery (%)</u>	<u>RPD</u>	<u>Acceptability Range (%)</u>	<u>RPD Range (%)</u>
Lead	104	103	0.39	80 - 120	20

LMB = Laboratory Method Blank
LCS = Laboratory Control Sample
ND = Not Detected

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference

Fullerton Environmental Laboratory


LABORATORY REPORT

Client:	Jones Environmental	Report Date:	07/27/94
Client Address:	P. O. Box 5387	FEL Ref. No.:	1644
	Fullerton, CA 92635	Client Ref. No.:	40443/Maness
Attn:	Steve Jones	Date Sampled:	07/20/94
Project:	Douglas Aircraft	Date Received:	07/24/94
Project Address:	Torrance, CA	Date Analyzed:	07/26/94
		Physical State:	Soil

ANALYSES REQUESTED

1. EPA 7420 - Total Lead by Flame AA

Approval:


Laboratory Manager
Beth Riley

APPENDIX G

CHAIN OF CUSTODY DOCUMENTS

ENVIRONMENTAL
TESTING LABORATORIES
Fullerton, CA 92635
Tel. 714 449-9937
Fax 714 449-9685

Chain-Of-Custody Record

Client		JEL Project #						
MANESS		1675						
Project Name		Page 1 of 3						
Project Address		Lab Use Only						
19503 S. NORMANDIE		Sample Condition as Received:						
TERRANCE		Chilled <input type="checkbox"/> yes <input type="checkbox"/> no						
Project Contact		Sealed <input type="checkbox"/> yes <input type="checkbox"/> no						
Sample ID	Sample Location	Date	Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A)	Analysis Requested	Number of Containers	Container/Comments
T13-7		7/7/94	10:25	1675-001	S	X	X	1
T14-7		7/7/94	10:25	1675-002	S	X	X	1
T11/12-14		7/7/94	11:05	1675-003	S	X	X	1
T11-14		7/7/94	11:05	1675-004	S	X	X	1
T12-14		7/7/94	11:11	1675-005	S	X	X	1
SP-1		7/7/94	11:11	1675-006	S	X	X	1
SP-2		7/7/94	11:11	1675-007	S	X	X	1
SP-3		7/7/94	11:11	1675-008	S	X	X	1
SP-4		7/7/94	12:25	1675-009	S	X	X	1
SP-5		7/7/94	12:20	1675-010	S	X	X	1
				Received by (signature)		Date	Total Number of Containers	
				7-7-94		7/7/94	10	
				Company		Time	Additional Comments	
				JONES ENVIRONMENTAL		12:30		
				Received by Laboratory (signature)		Date		
				Company		Time		

Chain-Of-Custody Record

Client		Date		Client Project #		Turn Around Requested:		Analysis Requested		JEL Project #	
MARV'S		7-7-94		7-7-94		<input type="checkbox"/> Immediate Attention <input type="checkbox"/> Rush 24-48 Hours <input type="checkbox"/> Rush 72-96 Hours <input type="checkbox"/> Normal <input checked="" type="checkbox"/> Mobile Lab				1675	
Project Name		Project Address		Project Contact		Project Location		Sample Matrix: Soil (S), Sludge (SL), Aqueous (A)		Page 2 of 3	
Douglas Aircraft		19503 S. NORMANDIE		TERENCE				4181 8020 7420 MOD DISC1		Lab Use Only	
Sample ID		Sample Location		Laboratory Sample Number		Date		Time		Sample Condition as Received: Chilled <input type="checkbox"/> Yes <input type="checkbox"/> No Sealed <input type="checkbox"/> Yes <input type="checkbox"/> No	
SP-6			7/7/94	1215	1675-011	S	X	X	X	X	1
SP-7			7/7/94	1215	1675-012	S	X	X	X	X	1
SP-8			7/7/94	1208	1675-013	S	X	X	X	X	1
SP-9			7/7/94	1210	1675-014	S	X	X	X	X	1
SP-10			7/7/94	1205	1675-015	S	X	X	X	X	1
SP-11			7/7/94	1200	1675-016	S	X	X	X	X	1
T20A16			7/7/94	1233	1675-017	S	X	X	X	X	1
T20B16			7/7/94	1233	1675-018	S	X	X	X	X	1
T20C16			7/7/94	1236	1675-019	S	X	X	X	X	1
T19A16			7/7/94	1309	1675-020	S	X	X	X	X	1
① Relinquished by (signature)		Date 7-7-94		② Received by (signature)		Date 7/7/94		Total Number of Containers		10	
Company		Time 1:30		Company		Time 1320		Additional Comments			
① Relinquished by (signature)		Date		① Received by Laboratory (signature)		Date					
Company		Time		Company		Time					

Chain-Of-Custody Record

Client <u>Maness</u>		Date <u>7/7/94</u>	JEL Project # <u>1675</u>	
Project Name <u>Douglas Aircraft</u>		Client Project #	Page <u>3</u> of <u>3</u>	
Project Address <u>19503 S. Normandie</u>		Lab Use Only		
Project Contact <u>Torrance</u>		Sample Condition as Received: Chilled <input type="checkbox"/> yes <input type="checkbox"/> no Sealed <input type="checkbox"/> yes <input type="checkbox"/> no		
Turn Around Requested: <input type="checkbox"/> Immediate Attention <input type="checkbox"/> Rush 24-48 Hours <input type="checkbox"/> Rush 72-96 Hours <input type="checkbox"/> Normal <input checked="" type="checkbox"/> Mobile Lab		Analysis Requested		
Sample ID	Sample Location	Date	Time	Container/Comments
TA B 16		7/7/94	1309	1
TA C 16		7/7/94	1309	1
Total Number of Containers				
Total Number of Containers				2
Additional Comments				
Relinquished by (signature) <u>[Signature]</u>		Received by (signature) <u>[Signature]</u>		
Company <u>Maness</u>		Company <u>Jones Environmental</u>		
Relinquished by (signature)		Received by Laboratory (signature)		
Date		Date		
Time		Time		
Date		Date		
Time		Time		

Chain-Of-Custody Record

Client MAGNESS ENVIRONMENTAL		Date 7/7/94		JEL Project # 1579	
Project Name Douglas Aircraft		Client Project #		Page 1 of 3	
Project Address 19503 S. MURRAY BLVD TOLANCA, CA		Turn Around Requested: <input type="checkbox"/> Immediate Attention <input type="checkbox"/> Rush 24-48 Hours <input type="checkbox"/> Rush 72-96 Hours <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Mobile Lab		Lab Use Only Sample Condition as Received: Chilled <input type="checkbox"/> yes <input type="checkbox"/> no Sealed <input type="checkbox"/> yes <input type="checkbox"/> no	
Project Contact SCOTT HUMPHREY				Number of Containers	
Sample ID	Sample Location	Date	Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A)
T13-7		7/7/94	10:25	1	S X
T14-7		7/7/94	10:25	2	S X
T11/12-14		7/7/94	11:05	3	S X
T11-14		7/7/94	11:05	4	S X
T12-14		7/7/94	11:11	5	S X
SP-1		7/7/94	11:11	6	S X
SP-2		7/7/94	11:11	7	S X
SP-3		7/7/94	11:11	8	S X
SP-4		7/7/94	12:25	9	S X
SP-5		7/7/94	12:20	10	S X
1 Relinquished by (signature)		2 Received by (signature)		Analysis Requested	
Date: 7/8/94		Date: 7/8/94		Date: 7-8-94	
Time: 7:45		Time: 7:45		Time: 0745	
Company		Company		Additional Comments	
JEL/FEL		PER		10	
1 Relinquished by (signature)		1 Received by Laboratory (signature)		Total Number of Containers	
Date:		Date:		Date:	
Time:		Time:		Time:	
Company		Company		Container/Comments	
				125ml Glass Jars	

Chain-Of-Custody Record

Client		Date		JEL Project #			
MAHESI ENVIRONMENTAL		7/7/94		1579			
Project Name		Client Project #		Page			
Douglas Aircraft				2 of 3			
Project Address		Turn Around Requested:		Lab Use Only			
19503 S. NORMAN BLVD		<input type="checkbox"/> Immediate Attention <input type="checkbox"/> Rush 24-48 Hours <input type="checkbox"/> Rush 72-96 Hours <input checked="" type="checkbox"/> Normal		Sample Condition as Received: Chilled <input type="checkbox"/> yes <input type="checkbox"/> no Sealed <input type="checkbox"/> yes <input type="checkbox"/> no			
Project Contact		Turn Around Requested:		Number of Containers			
SCOTT HUNTNER							
Sample ID	Sample Location	Date	Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A)	Analysis Requested	Container/Comments
SP-6		7/7/94	12:15	11	S X		1 125 mL GASS JARS
SP-7		7/7/94	12:15	12	S X		1
SP-8		7/7/94	12:08	13	S X		1
SP-9		7/7/94	12:10	14	S X		1
SP-10		7/7/94	12:05	15	S X		1
SP-11		7/7/94	12:00	16	S X		1
TW-A16		7/7/94	12:33	17	S X		1
TW-B16		7/7/94	12:33	18	S X		1
TW-C16		7/7/94	12:36	19	S X		1
TW-A16		7/7/94	13:09	20	S X		1
① Relinquished by (signature)		Date	7/8/94	② Received by (signature)		Date	7-8-94
Company		Time	7:45	Company		Time	07:45
① Relinquished by (signature)		Date		① Received by Laboratory (signature)		Date	
Company		Time		Company		Time	
Total Number of Containers		Additional Comments					
10							

ENVIRONMENTAL

TESTING LABORATORIES

Chain-Of-Custody Record

[illegible]

Chain-Of-Custody Record

[illegible]

Chain-Of-Custody Record

Client		Date		JEL Project #			
MANESS ENV.		7-14-94		1681			
Project Name		Client Project #		Page			
DOUGLAS AIRCRAFT CO		40443		1 of 2			
Project Address		Turn Around Requested:		Lab Use Only			
19503 S. NORWICH AVE		<input type="checkbox"/> Immediate Attention <input type="checkbox"/> Rush 24-48 Hours <input type="checkbox"/> Rush 72-96 Hours <input type="checkbox"/> Normal <input type="checkbox"/> Mobile Lab		Sample Condition as Received: Chilled <input type="checkbox"/> yes <input type="checkbox"/> no Sealed <input type="checkbox"/> yes <input type="checkbox"/> no			
Project Contact		Sample Matrix: Soil (S), Sludge (SL), Aqueous (A)		Number of Containers			
SCOTT / GAT31		418.1 8020 7420					
Sample ID	Sample Location	Date	Time	Laboratory Sample Number	Analysis Requested	Container/Comments	
HA1-15'	BENEATH FORDER UST	7/14	9:25	1681-001		1	
HA2-5'	SW OF UST	7/14	10:00	1681-002		1	
HA2-10'	SW OF UST	7/14	10:20	1681-003		1	
HA2-15'	SW OF UST	7/14	11:55	1681-004		1	
HA3-5'	S OF UST	7/14	9:50	1681-005		1	
HA3-10'	S OF UST	7/14	10:40	1681-006		1	
HA3-15'	S OF UST	7/14	12:10	1681-007		1	
HA4-15'	E OF UST	7/14	9:30	1681-008		1	
HA1-9'	BENEATH FORDER UST	7/14	9:15	1681-009		1	
HA1-12'	BENEATH FORDER UST	7/14	9:20	1681-010		1	
Relinquished by (signature)		Date		Received by (signature)		Date	
Michael Hooper		7-14-94		JONES		7-14-94	
Company		Time		Company		Time	
MANESS		3:08 PM		JONES		4:35	
Relinquished by (signature)		Date		Received by Laboratory (signature)		Date	
MANESS							
Company		Time		Company		Time	
Total Number of Containers						10	
Additional Comments							

**P.O. Box 5387
Fullerton, CA 92635
Tel. 714 449-9937
Fax 714 449-9685**

Cilient		/	/	/
Date		/	/	/

BOE-C6-0016417

Field # 1618
Chain-Of-Custody Record

Client: Murrell		Date: 7-14-94		Lab Project # 1681	
Project Name: Douglas Aircraft		Client Project #		Page 1 of 2	
Project Address:		Turn Around Requested: <input type="checkbox"/> Immediate Attention <input type="checkbox"/> Rush 24-48 Hours <input type="checkbox"/> Rush 72-96 Hours <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Mobile Lab		Lab Use Only Sample Condition as Received: Chilled <input type="checkbox"/> yes <input type="checkbox"/> no Sealed <input type="checkbox"/> yes <input type="checkbox"/> no	
Project Contact: Torrance					
Project Contact: Scott Fultner					
Sample ID	Sample Location	Date	Time	Laboratory Sample Number	Number of Containers
HA1-15		7-14-94		1	X
HA2-5				2	X
HA2-10				3	X
HA2-15				4	X
HA3-5				5	X
HA3-10				6	X
HA3-15				7	X
HA4-15				8	X
HA1-9				9	X
HA1-12				10	X
① Relinquished by (signature) [Signature]		Date: 7/15/94	Time: 13:30	Received by (signature) [Signature]	
Company: Jewell		Company: FEZ		Total Number of Containers	
② Relinquished by (signature)		Date	Time	Additional Comments	
Company		Company			

Chain-Of-Custody Record

Client Manest		Date 7-15-94		Project # 1681		Page 2 of 2		Lab Use Only Sample Condition as Received: Chilled <input type="checkbox"/> yes <input type="checkbox"/> no Sealed <input type="checkbox"/> yes <input type="checkbox"/> no	
Project Name Douglas Aircraft		Client Project # 40443		Analysis Requested		Number of Containers		Container/Comments	
Project Address TORRANCE, CA		Turn Around Requested: <input type="checkbox"/> Immediate Attention <input type="checkbox"/> Rush 24-48 Hours <input type="checkbox"/> Rush 72-96 Hours <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Mobile Lab		Sample Matrix: Soil (S), Sludge (SL), Aqueous (A) 7420		Sample Matrix: Soil (S), Sludge (SL), Aqueous (A) 7420		Container/Comments	
Project Contact Scott Fultner		Laboratory Sample Number 11 12		Date 7-14-94 7-14-94		Time 9:05 9:10		Container/Comments	
Sample ID HA4-9 HA4-12		Sample Location		Date		Time		Container/Comments	
Relinquished by (signature) [Signature]		Received by (signature) [Signature]		Date 7/15/94		Time 13:30		Total Number of Containers	
Company ORL/FRL		Company FRL		Date		Time		Additional Comments	
Relinquished by (signature) [Signature]		Received by Laboratory (signature) [Signature]		Date		Time		Additional Comments	
Company		Company		Date		Time		Additional Comments	

Chain-Of-Custody Record





Client		Date		JEL Project #		
MANESS		7/20/94		1687		
Project Name		Client Project #		Page		
Douglas Aircraft		40443		1 of 2		
Project Address		Turn Around Requested:		Lab Use Only		
		<input type="checkbox"/> Immediate Attention <input type="checkbox"/> Rush 24-48 Hours <input type="checkbox"/> Rush 72-96 Hours <input type="checkbox"/> Normal <input type="checkbox"/> Mobile Lab		Sample Condition as Received: Chilled <input type="checkbox"/> yes <input type="checkbox"/> no Sealed <input type="checkbox"/> yes <input type="checkbox"/> no		
Project Contact		Laboratory Sample Number		Analysis Requested		
Scott Hultner						
Sample ID	Sample Location	Date	Time	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A)	Number of Containers	Container/Comments
SP12	Composite	7/20/94	10:05	X	1	
SP13	"		10:15	X	1	
SP14	"		10:23	X	1	
SP15	"		10:30	X	1	
SP16	"		10:45	X	1	
SP17	"		10:55	X	1	
SP18	"		11:10	X	1	
SP19	"		11:15	X	1	
SP20	"		11:20	X	1	
SP21	"		12:05	X	1	
Relinquished by (signature) [Signature]		Date	Time	Total Number of Containers		
		7-20-94	2:35	10		
Received by (signature) [Signature]		Date	Time	Additional Comments		
				* see back page		
Relinquished by (signature) [Signature]		Date	Time	IF ABOVE 100 ppm PAR 8015D → ANALYZE		
Company		Company		Company		

Chain-Of-Custody Record

[illegible]

Chain-Of-Custody Record

Client HANESS DOUGLAS TORRANCE		Project Name DOUGLAS Project Address TORRANCE		Project Contact SCOTT		Sample ID HA 3-20'		Sample Location	
Date 7-20-94 Client Project # 40443 Turn Around Requested: <input type="checkbox"/> Immediate Attention <input type="checkbox"/> Rush 24-48 Hours <input type="checkbox"/> Rush 72-96 Hours <input type="checkbox"/> Normal <input type="checkbox"/> Mobile Lab			Laboratory Sample Number 7-20-94			Date 7-20-94 Time			
Sample Matrix: Soil (S), Sludge (SL), Aqueous (A) 418.1 8020 7420			Analysis Requested			Number of Containers			
JEL Project # 1687 Page 1 of 1 Lab Use Only Sample Condition as Received: Chilled <input type="checkbox"/> yes <input type="checkbox"/> no Sealed <input type="checkbox"/> yes <input type="checkbox"/> no			Container/Comments			Total Number of Containers			

Relinquished by (signature)  Company HANESS		Received by (signature)  Company HANESS		Date 7-20-94 Time 4:30		Date 7-20-94 Time 4:25	
Relinquished by (signature)  Company HANESS		Received by Laboratory (signature)  Company HANESS		Date Time		Additional Comments	

APPENDIX H

CERTIFIED COMPACTION REPORT

NorCal Engineering
SOILS AND GEOTECHNICAL CONSULTANTS
10641 HUMBOLT STREET LOS ALAMITOS, CA 90720
(310) 799-9469 FAX (310) 799-9459

August 11 , 1994

Project Number 4896-94

Maness Environmental Services
1101 E. Spring Street
Long Beach, California 90807-0917

Re: **Observation and Testing of Backfill Operations** - Tank Excavation
Backfills for McDonnell Douglas Facility - Building No. 1 - Located at 19503
South Normandie Avenue, in the City of Los Angeles, California

Dear Sirs:

Pursuant to your request, this firm has observed and tested backfill operations at the above referenced location. Results of compaction tests are attached and locations of these tests are shown on the accompanying plot plan. The excavation backfill meet secondary fill requirements for the support of floor slabs or pavement. All work was performed in accordance with all present day standards of the Soils Engineering Industry.

All demolition debris was removed from the fill area prior to the placement of any fill soils. The existing low density soils were removed to competent native soils, the exposed surface scarified, moisture conditioned and then recompactd to a minimum of 95% relative compaction. The bottom of the excavation was approved by this firm prior to placing backfill. The bottom of the excavations were about 15 and 20 feet below ground surface and backfilled with 8 to 10 feet of pea gravel. The fill soils and pea gravel were compacted to a minimum of 95% of the laboratory standard.

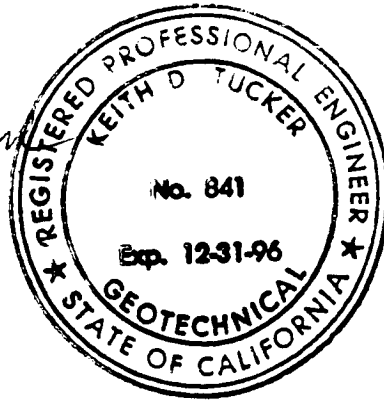
The relative compaction for the upper 8 feet of the fill soils was determined by Sand Cone Method (ASTM:D 1556-82) and by the Drive Tube Method (ASTM: D-2937). Relatively undisturbed samples of the pea gravel were obtained with a split spoon sampler with a rock catcher. The maximum density of the fill soils was obtained by the laboratory standard (ASTM:D 1557-78) and results are shown on Table I. Tests were performed a minimum of every 500 cubic yards placed and every 2 feet in depth of fill placed. A backhoe mounted vibratory plate was utilized for compaction control. A water hose provided moisture control. No chemical analysis was performed by NorCal Engineering on the tank excavation nor the backfill soils.

We appreciate this opportunity to be of service to you. If you have any further questions, please do not hesitate to contact the undersigned.

Respectfully submitted,
NORCAL ENGINEERING

Keith D. Tucker

Keith D. Tucker
Project Engineer
R.G.E. 841



Troy D. Norrell

Troy D. Norrell
President

NorCal Engineering

TABLE I
MAXIMUM DENSITY TESTS
(ASTM:D 1557-78)

<u>Soil Type</u>	<u>Classification</u>	<u>Optimum Moisture</u>	<u>Maximum Dry Density (lbs./cu.ft.)</u>
I	SAND, fine grained, silty	12.0	118.0
II	Pea gravel	6.5	128.0
III	SAND, fine to coarse grained, slight silt content, slight clay content	9.5	126.0
IV	SAND, fine grained, silty	12.0	119.0
V	SAND, fine to coarse grained, slight clay content, gravelly pea gravel	10.0	123.0

NorCal Engineering

TABLE II
COMPACTION TESTS RESULTS

<u>Date of</u> <u>Test</u>	<u>Test</u> <u>No.</u>	<u>Depth *</u>	<u>Percent</u> <u>Moisture</u>	<u>Unit Wt.</u> <u>lbs./cu.ft.</u>	<u>Relative</u> <u>Compaction</u>	<u>Soil</u> <u>Type</u>
<u>Excavation 1</u>						
7/19/94	101	15.0-15.5	13.1	112.3	95	I
7/19/94	102	13.0-13.5	5.5	106.2	97	II
7/19/94	103	11.0-11.5	4.8	104.0	95	II
7/19/94	104	9.0-9.5	4.7	106.8	97	II
7/20/94	105	7.0-7.5	10.7	120.1	95	III
7/20/94	106	6.0-6.5	10.3	113.3	96	IV
7/20/94	107	4.0-4.5	10.9	100.9	84	IV
7/20/94	107A**	4.0-4.5	12.3	115.2	95	IV
7/22/94	108	3.0-3.5	8.5	117.2	95	V
7/22/94	109	2.0-2.5	10.3	115.1	96	IV
7/22/94	110	0.0-0.5	11.8	113.6	95	IV
<u>Excavation 2</u>						
7/22/94	111	20.0-20.5	13.7	112.3	95	I
7/22/94	112	18.0-18.5	5.2	122.8	96	II
7/22/94	113	16.0-16.5	5.4	121.7	95	II
7/22/94	114	14.0-14.5	4.9	124.0	97	II
7/22/94	115	12.0-12.5	4.8	123.2	96	II
7/22/94	116	10.0-10.5	5.4	104.9	96	II
7/22/94	117	8.0-8.5	5.4	103.8	95	II
7/22/94	118	6.0-6.5	5.0	106.2	97	II

* Depth below finish grade (in feet)

** Retest of failing tests after area reworked

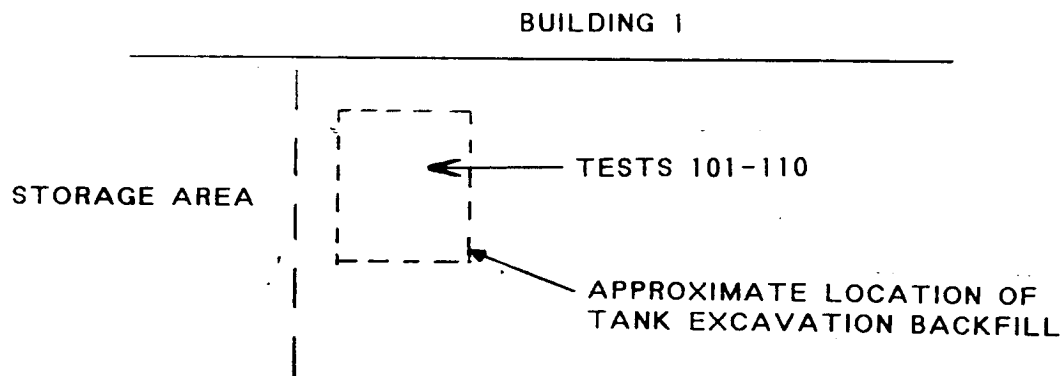
NorCal Engineering

TABLE II
COMPACTION TESTS RESULTS

<u>Date of</u> <u>Test</u>	<u>Test</u> <u>No.</u>	<u>Depth *</u>	<u>Percent</u> <u>Moisture</u>	<u>Unit Wt.</u> <u>lbs./cu.ft.</u>	<u>Relative</u> <u>Compaction</u>	<u>Soil</u> <u>Type</u>
<u>Excavation 2</u>						
7/22/94	119	5.0-5.5	5.3	105.3	96	II
7/28/94	120	6.0-6.5	9.4	120.1	95	III
7/28/94	121	4.0-4.5	9.7	121.7	95	II
7/28/94	122	2.0-2.5	10.1	121.9	95	II
7/28/94	123	1.0-1.5	10.4	122.1	95	II
8/3/94	124	0.0-0.5	8.7	121.8	95	II

* Depth below finish grade (in feet)

** Retest of failing tests after area reworked



DOUGLAS AIRCRAFT FACILITY

NOT TO SCALE

NorCal Engineering
SOILS AND GEOTECHNICAL CONSULTANTS

MANESS ENVIRONMENTAL SERVICES

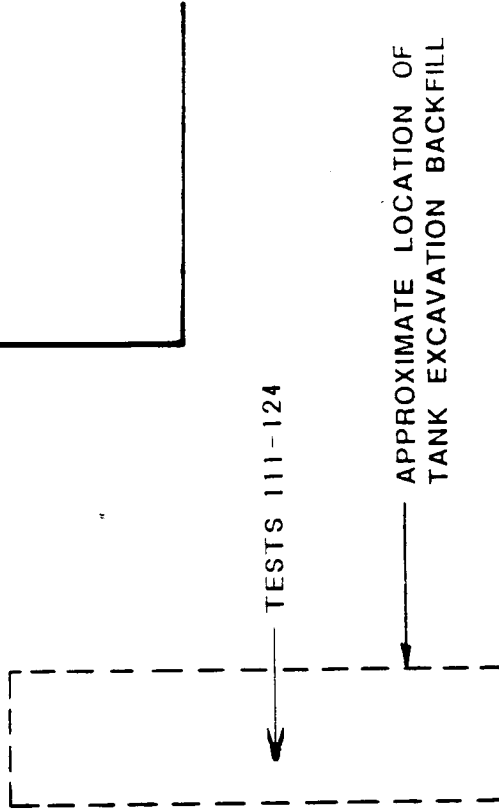
PROJECT 4898-84

DATE JULY, 1984

SITE PLAN
EXCAVATION 1

BUILDING 1

BUILDING 40



DOUGLAS AIRCRAFT FACILITY

NorCal Engineering
SOILS AND GEOTECHNICAL CONSULTANTS

MANESS ENVIRONMENTAL SERVICES

PROJECT

4896-94

DATE

JULY 1994

SITE PLAN
EXCAVATION 2



1 INCH = 20 FEET

CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY
ENGINEER'S CERTIFICATE OF COMPLIANCE FOR COMPACTED EARTH FILLS

JOB ADDRESS: 19503 South Normandie Avenue, Los Angeles

SOIL TESTING AGENCY: NorCal Engineering

PROPERTY OWNER'S NAME: McDonnell Douglas Corporation

OWNER'S ADDRESS: 19503 South Normandie Avenue
Los Angeles, California

PER REPORTS ON OUR PROJECT NUMBER: 4896-94

DATE WORK STARTED ON PROJECT: 7/19/94

DATE FILL WAS COMPLETED: 8/3/94

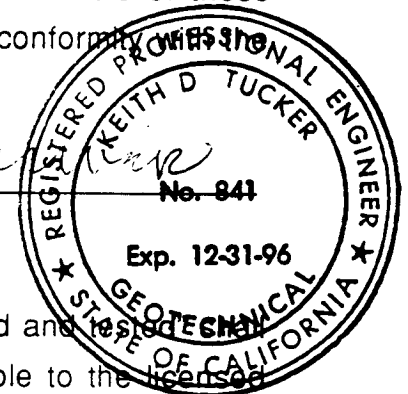
DATE OF THIS CERTIFICATE: 8/11/94

TO THE SUPERINTENDENT OF BUILDING:

I hereby certify that I have personally inspected and tested the placing of compacted earth fill on the above described property, and on the basis of these inspections and tests it is my opinion that the same was placed in conformity with the requirements of the Los Angeles City Building Code.

Keith D. Tucker

Keith D. Tucker
R.G.E. 841



* For the purpose of this certificate, to have "personally inspected and tested" shall include inspection and testing performed by any person responsible to the licensed engineer signing this certificate. Where the inspection and testing of all or part of the work above is delegated, full responsibility shall be assumed by the licensed engineer whose signature is affixed thereon.

APPENDIX I

NON - HAZARDOUS WASTE DATA FORMS

Customer

REPORT OF

Page 1

Customer Name: : DOUGLAS AIRCRAFT
07-01-94 08-04-94
Reporting FROM : 00:00 TO : 23:59

DATE : 08-04-94
TIME : 10:19:32

Date In	Manifest No.:	Load No.:	Transporter:	Driver's Name:	Net Tons	:
07-27-94	03-03158	001	CHARLES WILLSON	CHARLES WILLSON	23.94	
07-27-94	03-03158	003	HULLINGER	HAL HULLINGER	23.14	
07-27-94	03-03158	002	MIKE & SON	MIGUEL GUERRERO	23.30	
07-27-94	03-03158	004	CROOKS	KENNETH PRATTE	24.76	
07-27-94	03-03158	005	JW TRUCKING	ROY NICKELL	25.23	
07-27-94	03-03158	006	BVC	DWAYNE SARGENT	23.55	
07-27-94	03-03158	007	MANESS	GREG MARISCAL	20.51	
07-27-94	03-03158	010	MIKE & SONS	MIGUEL GUERRERO	25.83	
07-27-94	03-03158	009	JW TRUCKING	ROY NICKELL	26.16	
07-27-94	03-03158	008	MANESS	ESTEL MCMASTER	21.50	
07-27-94	03-03158	011	CHARLES WILLSON	CHARLES WILLSON	24.85	
07-27-94	03-03158	012	HULLINGER	HAL HULLINGER	23.90	
07-27-94	03-03158	013	CROOKS	KENNETH PRATTE	23.56	
07-27-94	03-03158	014	BVC	DWAYNE SARGENT	24.55	
07-27-94	03-03158	015	MANESS	GREG MARISCAL	20.69	
07-27-94	03-03158	019	CROOKS	KENNETH PRATTE	25.50	
07-28-94	03-03158	017	MIKE & SONS	MIGUEL GUERRERO	23.97	
07-28-94	03-03158	018	HULLINGER	HAL HULLINGER	22.59	
07-28-94	03-03158	016	CHARLES WILLSON	CHARLES WILLSON	24.41	
07-28-94	03-03158	20	MORALES TRUCKING	GABRIEL OROZCO	24.76	
07-28-94	03-03158	021	CHARLES WILLSON	CHARLES WILLSON	24.46	
07-28-94	03-03158	022	HAL HULLINGER	HAL HULLINGER	16.24	
07-28-94	03-03158	023	MIKE & SONS	MIGUEL GUERRERO	25.09	

LS :

542.49

Manifest

TPS Technologies Soil Recycling Non-Hazardous Soils

Manifest #

Date of Shipment: 7-27-94
Transporter ID #: 1
3158
Load #: 101

DOUGLAS AIR CRAFT COMPANY
DEPARTMENT C1-710, MC 127-10
3855 LAKEWOOD BLVD.
LONG BEACH, CA. 90846
SITE ADDRESS: 19503 S. NORMANDIE TORRANCE

Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807
(310) 595-4555
Richard Okuda

TPS Technologies Inc.
12328 Hibiscus Avenue
Adelanto, California 92301

Facility Phone #: (800) 862-9001
Person to Contact: Darren Bartlett
FAX: (619) 246-8004

Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

Transporter Phone #: (310) 595-4555
Person to Contact: Richard Okuda
FAX: () -
Transporter's US EPA ID No.:
Transporter's DOT No.:
Customer Account Number with TPS:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Net Weight
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input checked="" type="checkbox"/>	2014 224		78600	30740
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>				23.2

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Robert G. Tuell, Jr. Generator ☒ Consultant ☐
Signature and date: Robert G. Tuell, Jr. Month: 07 Day: 27 Year: 94

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Charles W. Wilson
Signature and date: Charles W. Wilson Month: 7 Day: 27 Year: 94

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: Nancy Romero
Signature and date: Nancy Romero 7-27-94

Generator and/or Consultant

Transporter

Recycling Facility

See print or type.

TPS NUMERICAL COPY

Manifest

TPS Technologies Soil Recycling

Non-Hazardous Soils

Manifest # 1

Date of shipment 07 27 94	Transporter Truck # 11	Load # 3158	Load # 102
-------------------------------------	----------------------------------	-----------------------	----------------------

SITE ADDRESS: 19503 S. NORMANDIE TORRANCE

3158

DOUGLAS AIR CRAFT COMPANY
DEPARTMENT CI-710, MC 127-10
3855 LAKEWOOD BLVD.
LONG BEACH, CA. 90846

Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

(310) 595-4555

Richard Okuda

TPS Technologies Inc.
12328 Hibiscus Avenue

Adelanto, California 92301

(800) 862-8001

Darren Bartlett

(619) 246-8004

Maness Environmental Svcs Inc.
1101 E. Spring Street

Long Beach, CA 90807

(310) 595-4555

Richard Okuda

Description of Soil	Moisture Content	Contaminated by	Approx Qty	Description of Delivery	Gross Weight	Net Weight
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>	22*		76560	30360
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>				23.30

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by melus for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☒ Consultant ☐ Signature and date: Robert G. Tuell, Jr. 07 27 94

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Miguel Guerrero Signature and date: Miguel Guerrero 07 27 94

Discrepancies

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: Signature and date: Daniel Clement 1-27-94

Please print or type.

TPS NUMERICAL COPY

Manifest

TPS Technologies Soil Recycling
Non-Hazardous Soils

Manifest #

Date of Shipment:
Transporter Truck #
03
31588
Load #
03

DOUGLAS AIR CRAFT COMPANY
DEPARTMENT C1-710, MC 127-10
3855 LAKEWOOD BLVD.
LONG BEACH, CA, 90846
SITE ADDRESS: 19503 S. NORMANDIE TORRANCE

Manesse Environmental Svcs Inc. (619) 595-4555
1101 E. Spring Street
Richard Okuda
Long Beach, CA 90807

HULL

TPS Technologies Inc. (800) 862-8001
12328 Hibiscus Avenue
Darren Bartlett
Adelanto, California 92301 (619) 246-8004

Manesse Environmental Svcs Inc. (619) 595-4555
1101 E. Spring Street
Richard Okuda
Long Beach, CA 90807

Description of Soil	Moisture Content	Contaminated by	Approx. Qty.	Description of Delivery	Gross Weight	Net Weight
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>	oil 22t		75080	31800
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>				46280

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☒ Consultant ☐ Signature and date: Robert G. Tuell, Jr. 07 27 94

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: HAL HULLINGER Signature and date: 07 27 94

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: Signature and date: James Clement 7-27-94

Please print or type

TPS NUMERICAL COPY

Manifest

TPS Technologies Soil Recycling Non-Hazardous Soils

Manifest # 1

Date of Shipment	Transporter Truck #	03	Load #	04
		3158		

DOUGLAS AIR CRAFT COMPANY
DEPARTMENT C1-710, MC 127-10
3855 LAKEWOOD BLVD.
LONG BEACH, CA. 90846
SITE ADDRESS: 19503 S. NORMANDIE TORRANCE

Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

(310) 595-4555

Richard Okuda

TPS Technologies Inc.
12328 Hibiscus Avenue

Adelanto, California 92301

(800) 862-8001

Darren Bartlett

(619) 246-8004

Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

(310) 595-4555

Richard Okuda

FAA#

Transporter's US EPA ID No.

Transporter's DOT No.

Customer Account Number with TPS

Description of Soil	Moisture Content	Contained by:	Approx. Qty.	Description of Delivery	Gross Weight	Net Weight
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input checked="" type="checkbox"/>	22 t		78640	49520
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>				29.76

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Robert G. Tuell, Jr. Generator ☒ Consultant ☐ Signature and date: Robert G. Tuell, Jr. Month: 07 Day: 27 Year: 94

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Kenneth Prater Signature and date: Kenneth Prater Month: 7 Day: 27 Year: 94

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: Sandy Clemen Signature and date: Sandy Clemen 7-27-94

Please print or type.

TPS.NUMERICAL COPY

Manifest

TPS Technologies Soil Recycling Non-Hazardous Soils

Manifest #

Date of Shipment: 07-27-94
Transporter Truck #: 03
3158
Load #: 05

DOUGLAS AIR CRAFT COMPANY
DEPARTMENT C1-710, MC 127-10
3855 LAKEWOOD BLVD.
LONG BEACH, CA. 90846
SITE ADDRESS: 19503 S. NORMANDIE TORRANCE

Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

Phone #: (310) 595-4555
Person to Contact: Richard Okuda

TPS Technologies Inc.
12328 Hibiscus Avenue
Adelanto, California 92301

Phone #: (800) 862-8001
Person to Contact: Darren Bartlett
Phone #: (619) 246-8004

Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

Transporter's Phone #: (310) 595-4555
Person to Contact: Richard Okuda
Transporter's US EPA ID No:
Transporter's DOT No:
Customer Account Number with TPS:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Net Weight
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> <input checked="" type="checkbox"/> Other <input type="checkbox"/>	221		81080	30820
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>				25

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Robert G. Tuell, Jr. Generator ☒ Consultant ☐
Signature and date: Robert G. Tuell, Jr. Month: 07 Day: 27 Year: 94

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Roy Nickell
Signature and date: Roy Nickell Month: 7 Day: 27 Year: 94

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: Sand, Clement
Signature and date: Sand, Clement 7-27-94

Please print or type.

TPS NUMERICAL COPY

BOE-C6-0016439

Manifest

TPS Technologies Soil Recycling Non-Hazardous Soils

Manifest #

Date of Shipment: **07-27-94** Transporter Truck # **03** Load # **3158** **06**

DOUGLAS AIR CRAFT COMPANY
DEPARTMENT C1-710, MC 127-10
3855 LAKEWOOD BLVD.
LONG BEACH, CA. 90846
SITE ADDRESS: 19503 S. NORMANDIE TORRANCE

310-533-7926

Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

(310) 595-4555

Richard Okuda

TPS Technologies Inc.
12328 Hibiscus Avenue
Adelanto, California 92301

Facility Phone #
(800) 862-8001

Person to Contact
Darren Bartlett

(619) 246-8004

Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

Transporter's Phone #
(310) 595-4555

Person to Contact
Richard Okuda

FA#) -

Transporter's US EPA ID No.

Transporter's DOT No.

Customer Account Number with TPS:

Description of Soil	Mixture Content	Contaminated by	Approx. Qty.	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> <i>oil</i> Other <input checked="" type="checkbox"/>	22t		78020	30926	47100
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					23.55

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☒ Consultant ☐ Signature and date: *Robert G. Tuell, Jr.* Month Day Year **07 27 94**

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: *DWLS - Sargeant* Signature and date: *Wgn Jan 5* Month Day Year **7 27 94**

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: Signature and date: *Lance Clements 7-27-94*

Please print or type.

TPS NUMERICAL COPY

Manifest

TPS Technologies Soil Recycling
Non-Hazardous Soils

Manifest #

Date of Shipment:

07 27 94

Transporter Truck #

2403-2404

03

3158

Load #

07

DOUGLAS AIR CRAFT COMPANY
DEPARTMENT C1-710, MC 127-10
3855 LAKEWOOD BLVD.
LONG BEACH, CA. 90846
SITE ADDRESS: 19503 S. NORMANDIE TORRANCE

310,533-7926

Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

(310) 595-4555

Richard Okuda

TPS Technologies Inc.
12328 Hibiscus Avenue

Adelanto, California 92301

(800) 862-8001

Darren Bartlett

(619) 246-8004

Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

(310) 595-4555

Richard Okuda

FAX:) -

Transporter's US EPA ID No.

Transporter's DOT No.

Customer Account Number with TPS:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20%-over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input checked="" type="checkbox"/>	22t		78000	37200	41000
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20%-over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					50

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by melus for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☒ Consultant ☐
Robert G. Tuell, Jr. Signature and date: Robert G. Tuell, Jr. Month 07 Day 27 Year 94

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Grey MARISCAL Signature and date: Grey Monaca Month 07 Day 27 Year 94

Discrepancy:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: Signature and date: Lance Clement 7-27-94

Please print or type.

TPS NUMERICAL COPY

Manifest

TPS Technologies Soil Recycling Non-Hazardous Soils

Manifest #

Date of shipment: 07 27 94
Transporter Truck #: 2401-2402
03
3158
Load #: 1008

DOUGLAS AIR CRAFT COMPANY
DEPARTMENT C1-710, MC 127-10
3855 LAKEWOOD BLVD.
LONG BEACH, CA. 90846
SITE ADDRESS: 19503 S. NORMANDIE TORRANCE

310 533-7926

Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

(310) 595-4555

Richard Okuda

TPS Technologies Inc.
12328 Hibiscus Avenue
Adelanto, California 92301

(800) 862-8001

Darren Bartlett

(619) 246-8004

Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

(310) 595-4555

Richard Okuda

FA#

Transporter's US EPA ID No.

Transporter's DOT No.

Customer Account Number with TPS

Description of Soil	Moisture Content	Contaminants	Approx. Qty.	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input checked="" type="checkbox"/>	22t		79120	36120	43000
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					21.5

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by melus for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☒ Consultant ☐
Robert G. Tull, Jr.
Signature and date: Robert G. Tull, Jr.
Month Day Year: 07 27 94

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: ESTEL McMASTER
Signature and date: Estel McMaster
Month Day Year: 07 27 94

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: Signature and date: Lancy Clement 7-27-94

Please print or type.

TPS NUMERICAL COPY

Manifest

TPS Technologies Soil Recycling Non-Hazardous Soils

Manifest #

Date of shipment: **07-27-94** Transporter Truck # **86** 03 3158 Load # **1009**

DOUGLAS AIR CRAFT COMPANY
DEPARTMENT C1-710, MC 127-10
3855 LAKEWOOD BLVD.
LONG BEACH, CA. 90846

310 533-7926

SITE ADDRESS: 19503 S. NORMANDIE TORRANCE

Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

(310) 595-4555
Richard Okuda

TPS Technologies Inc.
12328 Hibiscus Avenue
Adelanto, California 92301

(800) 862-8001
Darren Bartlett
(619) 246-8004

Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

(310) 595-4555
Richard Okuda

Facility Permit Numbers
Transporter's US EPA ID No.
Transporter's DOT No.
Customer Account Number with TPS

Description of Soil	Moisture Content	Contaminated by	Approx. Qty.	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input checked="" type="checkbox"/>	22 t		50800	30480	50320
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					(26.10)

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator **Robert G. Tuell, Jr.** Consultant ☐ Signature and date: **Robert G. Tuell, Jr.** Month **07** Day **27** Year **94**

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: **Rob Nickell** Signature and date: **Rob Nickell** Month **07** Day **27** Year **94**

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: Signature and date: **Sandy Clement 7-27-94**

Please print or type.

TPS NUMERICAL COPY

Manifest

TPS Technologies Soil Recycling Non-Hazardous Soils

Manifest #

Date of Shipment: 07-27-94
Transporter Truck #: 11
Load #: 1010
3158

DOUGLAS AIR CRAFT COMPANY
DEPARTMENT CI-710, MC 127-10
3855 LAKEWOOD BLVD.
LONG BEACH, CA. 90846
SITE ADDRESS: 19503 S. NORMANDIE TORRANCE

310-533-7926

Consultant's Name and Billing Address:
Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

Phone #: (310) 595-4555

Person to Contact: Richard Okuda

Designated Facility, Transporter, and Address:

TPS Technologies Inc.
12328 Hibiscus Avenue

Adelanto, California 92301

Phone #: (800) 862-8001

Person to Contact: Darren Bartlett

Phone #: (619) 246-8004

Transporter Name and Mailing Address:
Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

Phone #: (310) 595-4555

Person to Contact: Richard Okuda

FAX #: -

Transporter's US EPA ID No.:

Transporter's DOT No.:

Customer Account Number with TPS:

Description of Soil	Moisture Content	Contaminated by	Approx. Qty.	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input checked="" type="checkbox"/> Other <input type="checkbox"/>	22t		81740	30050	51690
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					25.8

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by melus for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator Robert G. Tuell, Jr. Consultant ☐ Signature and date: Robert G. Tuell, Jr. Month 07 Day 27 Year 94

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Miguel Guerrero Signature and date: Miguel Guerrero Month 07 Day 27 Year 94

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: Signature and date: Sandy Clement 7-27-94

Please print or type.

TPS NUMERICAL COPY

Manifest

TPS Technologies Soil Recycling Non-Hazardous Soils

Manifest #

Date of Shipment: 07-27-94
 Transporter Truck # 1
 03
 3158
 Load # 1011

DOUGLAS AIR CRAFT COMPANY
 DEPARTMENT C1-710, MC 127-10
 3855 LAKEWOOD BLVD.
 LONG BEACH, CA. 90846
 SITE ADDRESS: 19503 S. NORMANDIE TORRANCE

310.533-7926

Maness Environmental Svcs Inc.
 1101 E. Spring Street
 Long Beach, CA 90807

(310) 595-4555

Richard Okuda

TPS Technologies Inc.
 12328 Hibiscus Avenue
 Adelanto, California 92301

(800) 862-8001

Darren Bartlett

(619) 246-8004

Maness Environmental Svcs Inc.
 1101 E. Spring Street
 Long Beach, CA 90807

(310) 595-4555

Richard Okuda

FAX#) -

Transporter's US EPA ID No.:

Transporter's DOT No.:

Customer Account Number with TPS:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input checked="" type="checkbox"/>	22t		50150	30480	49700
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					84.8

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☒ Consultant ☐
 Robert G. Tuell, Jr. Signature and date: Robert G. Tuell, Jr. Month 07 Day 27 Year 94

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Charles Wilson Signature and date: Charles Wilson Month 07 Day 27 Year 94

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: Signature and date: Sandy Clement 7-27-94

Please print or type.

TPS NUMERICAL COPY

Manifest

TPS Technologies Soil Recycling Non-Hazardous Soils

Manifest #

Date of Shipment: 07 27 94
Transporter Truck # 03
3158
Load # 1012

DOUGLAS AIR CRAFT COMPANY
DEPARTMENT C1-710, MC 127-10
3855 LAKEWOOD BLVD.
LONG BEACH, CA. 90846
SITE ADDRESS: 19503 S. NORMANDIE TORRANCE

310 533-7926

Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

(310) 595-4555

Richard Okuda

TPS Technologies Inc.
12328 Hibiscus Avenue
Adelanto, California 92301

(800) 862-8001

Darren Bartlett

(619) 246-8004

Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

(310) 595-4555

Richard Okuda

FAX#) -

Transporter's US EPA ID No:

Transporter's DOT No:

Customer Account Number with TPS:

Description of Soil	Moisture Content	Contaminants	Approx. Qty	Description of Delivery	Gross Weight	Net Weight
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input checked="" type="checkbox"/>	22t		80000	37200
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>				23.7

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by melus for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Robert G. Tuell, Jr. Generator ☒ Consultant ☐
Signature and date: Robert G. Tuell, Jr. 07 27 94

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: HAL HULLINGER
Signature and date: Hal Hullinger 07 27 94

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: Sandy Clement
Signature and date: Sandy Clement 7-27-94

Please print or type.

TPS NUMERICAL COPY

Manifest

TPS Technologies Soil Recycling Non-Hazardous Soils

Manifest #

Date of Shipment: 07-27-94
Transporter Truck #: 03
Load #: 3158
10/13

DOUGLAS AIR CRAFT COMPANY
DEPARTMENT C1-710, MC 127-10
3855 LAKEWOOD BLVD.
LONG BEACH, CA. 90846

SITE ADDRESS: 19503 S. NORMANDIE TORRANCE

Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

Phone # (310) 595-4555

Person to Contact: Richard Okuda

Customer Account Number with TPS

TPS Technologies Inc.
12328 Hibiscus Avenue

Adelanto, California 92301

Phone # (800) 862-8001

Person to Contact: Darren Bartlett

Phone # (619) 246-8004

Facility Permit Numbers

Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

Transporter's Phone # (310) 595-4555

Person to Contact: Richard Okuda

FAX #

Transporter's US EPA ID No.

Transporter's DOT No.

Customer Account Number with TPS

Description of Soil	Moisture Content	Contaminated by	Approx. Qty.	Description of Delivery	Gross Weight	Net Weight
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input checked="" type="checkbox"/>	22t		76/600	29040
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>				23.50

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by melus for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Robert G. Tuell, Jr. Generator ☒ Consultant ☐
Signature and date: Robert G. Tuell, Jr. Month: 07 Day: 27 Year: 94

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Kenneth P. 9477C
Signature and date: Month: 07 Day: 27 Year: 94

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: Sandy Clements
Signature and date: Sandy Clements 7-21-94

Please print or type:

TPS NUMERICAL COPY

Manifest

TPS Technologies Soil Recycling Non-Hazardous Soils

Manifest #

Date of Shipment: 07 27 94
Transporter Truck #: 03
Load #: 1014
3158

DOUGLAS AIR CRAFT COMPANY
DEPARTMENT C1-710, MC 127-10
3855 LAKEWOOD BLVD.
LONG BEACH, CA. 90846
SITE ADDRESS: 19503 S. NORMANDIE TORRANCE

310 533-7926

Consultant's Name and Mailing Address:
Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

Consultant's Phone #
(310) 595-4555

Person to Contact:
Richard Okuda

TPS Technologies Inc.
12328 Hibiscus Avenue
Adelanto, California 92301

Facility Phone #
(800) 862-8001

Person to Contact:
Darren Bartlett

(619) 246-8004

Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

Transporter's Phone #
(310) 595-4555

Person to Contact:
Richard Okuda

FAK#) -

Transporter - US EPA ID No.

Transporter's DOT No.

Customer Account Number with TPS:

Description of Soil	Moisture Content	Contaminated by	Approx. Qty	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input checked="" type="checkbox"/>	225		79700	30600	49100
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					(29.5)

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by melus for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☒ Consultant ☐
Robert G. Tuell, Jr. Signature and date: Robert G. Tuell, Jr. Month 07 Day 27 Year 94

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Signature and date: Owayne Sargent Month 07 Day 27 Year 94

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: Signature and date: Sandy Clement 7-07-94

Please print or type:

TPS NUMERICAL COPY

Manifest

TPS Technologies Soil Recycling Non-Hazardous Soils

Manifest #

Date of Shipment: 07 27 94
Transporter Truck #: 2403 2404
03 3158
Load #: 15

DOUGLAS AIR CRAFT COMPANY
DEPARTMENT C1-710, MC 127-10
3855 LAKEWOOD BLVD.
LONG BEACH, CA. 90846

SITE ADDRESS: 19503 S. NORMANDIE TORRANCE

Generator Name and Mailing Address:
Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

Phone #: (310) 595-4555

Person to Contact: Richard Okuda

Customer Account Number with TPS:

TPS Technologies Inc.
12328 Hibiscus Avenue
Adelanto, California 92301

Phone #: (800) 862-8001

Person to Contact: Darren Bartlett

Phone #: (619) 246-8004

Facility Permit Numbers

Transporter's US EPA ID No.:

Transporter's DOT No.:

Customer Account Number with TPS:

Description of Soil	Moisture Content	Port of Origin	Approx Qty	Description of Delivery	Gross Weight	Net Weight
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input checked="" type="checkbox"/>	22t		78446	37000
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>				20.6

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☒ Consultant ☐
Robert G. Tuell, Jr. Robert G. Tuell, Jr. 07 27 94

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Greg Mari'sco
Greg Mari'sco 07 27 94

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: Sancy Clement
Sancy Clement 7-27-94

Please print or type.

TPS NUMERICAL COPY

Manifest

TPS Technologies Soil Recycling Non-Hazardous Soils

Manifest #

Date of Shipment:

07-28-94

Transporter Truck #

03

Load #

16

3158

DOUGLAS AIR CRAFT COMPANY
DEPARTMENT C1-710, MC 127-10
3855 LAKEWOOD BLVD.
LONG BEACH, CA. 90846

SITE ADDRESS: 19503 S. NORMANDIE TORRANCE

Consultant - Name and Billing Address:

Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

Consultant's Phone #

(310) 595-4555

Person to Contact:

Richard Okuda

FAX #

() -

Customer Account Number with TPS

Designated Facility - Name and Address:

TPS Technologies Inc.

12328 Hibiscus Avenue

Adelanto, California 92301

Facility Phone #

(800) 862-8001

Person to Contact:

Darren Bartlett

FAX #

(619) 246-8004

Facility Permit Numbers

Transporter - Name and Billing Address:

Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

Transporter's Phone #

(310) 595-4555

Person to Contact:

Richard Okuda

FAX #

() -

Transporter's DOT No.

Customer Account Number with TPS

Description of Soil	Moisture Content	Contaminated by	Approx Qty	Description of Delivery	Gross Weight	Net Weight
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input checked="" type="checkbox"/>	22 t		7958030760	488
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>				24.4

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name:

Generator ☒

Consultant ☐

Signature and date:

Robert G. Tuell, Jr.

Robert G. Tuell, Jr.

Month

Day

Year

07

28

94

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name:

Charles Willson

Signature and date:

Charles Willson

Month

Day

Year

07

28

94

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name:

Signature and date:

Sandra Clemens

Sandra Clemens 7-28-94

lease print or type.

TPS NUMERICAL COPY

Manifest

TPS Technologies Soil Recycling Non-Hazardous Soils

Manifest #

Date of Shipment: 07-28-94
Transporter Truck # 11
03 3158
Load # 1

DOUGLAS AIR CRAFT COMPANY
DEPARTMENT C1-710, MC 127-10
3855 LAKEWOOD BLVD.
LONG BEACH, CA. 90846
SITE ADDRESS: 19503 S. NORMANDIE, TORRANCE, CA

Generator Name and Billing Address:
Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

Generator's Phone #
(310) 595-4555

Person to Contact:
Richard Okuda

Customer Account Number with TPS

Designated Facility (Transporter's Billing Address):
TPS Technologies Inc.
12328 Hibiscus Avenue
Adelanto, California 92301

Facility Phone #
(800) 862-8001

Person to Contact:
Darren Bartlett

Facility's Phone #
(619) 246-8004

Facility Permit Numbers

Transporter Name and Billing Address:
Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

Transporter's Phone #
(310) 595-4555

Person to Contact:
Richard Okuda

FAA #

Transporter's US EPA ID No.

Transporter's DOT No.

Customer Account Number with TPS:

Description of Soil	Moisture	Contaminants	Approx. Weight	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input checked="" type="checkbox"/>	22+		7830030420	4780	
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					83.97

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator Robert G. Fuell, Jr. Consultant ☐ Signature and date: Robert G. Fuell, Jr. Month 07 Day 28 Year 94

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Miguel Guerrero Signature and date: Miguel Guerrero Month 07 Day 28 Year 94

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: Lance Comens Signature and date: Lance Comens Month 7 Day 28 Year 94

TPS NUMERICAL COPY

Manifest

TPS Technologies Soil Recycling Non-Hazardous Soils

Manifest #

Date of Shipment: 07-28-94	Transporter Truck # 03	Load # 3158	18
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DOUGLAS AIR CRAFT COMPANY
DEPARTMENT C1-710, MC 127-10
3855 LAKEWOOD BLVD.
LONG BEACH, CA. 90846
SITE ADDRESS: 19503 S. NORMANDIE TORRANCE

Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

(310) 595-4555

Richard Okuda

TPS Technologies Inc.
12328 Hibiscus Avenue
Adelanto, California 92301

(800) 862-8001

Darren Bartlett

(619) 246-8004

Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

(310) 595-4555

Richard Okuda

Description of Soil	Moisture Content	Contaminated by	Qty	Description of Delivery	Gross Weight	Net Weight
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input checked="" type="checkbox"/>	22t		77150	30000
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>				22.5

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by melus for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☒ Consultant ☐
Robert G. Tuell, Jr. Signature and date: **Robert G. Tuell, Jr.** Month **07** Day **27** Year **94**

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: **HAL HULLINGER** Signature and date: **Hal Hullinger** Month **07** Day **28** Year **94**

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: Signature and date: **James Clements** 7-28-94

Please print or type

TPS NUMERICAL COPY

Manifest #

TPS Technologies Soil Recycling

Non-Hazardous Soils

Manifest #

Date of Shipment: 07-28-94	Responsible for Payment:	Transporter Truck #:	Facility #: 03	Given by TPS: 3158	Load #: 119
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Generator's Name and Billing Address: DOUGLAS AIR CRAFT COMPANY DEPARTMENT C1-710, MC 127-10 3855 LAKEWOOD BLVD. LONG BEACH, CA 90846 SITE ADDRESS: 19503 S. NORMANDIE, TORRANCE, CA	Generator's Phone #: () - Person to Contact: FAX #: () -	Generator's US EPA ID No.: Customer Account Number with TPS:
---	--	---

Consultant's Name and Billing Address: Maness Environmental Svcs Inc. 1101 E. Spring Street Long Beach, CA 90807	Consultant's Phone #: (310) 595-4555 Person to Contact: Richard Okuda FAX #: () -	Customer Account Number with TPS:
---	---	-----------------------------------

Generation Site (Transport from): (name & address)	Site Phone #: () - Person to Contact: FAX #: () -	BE/LA Levels: TTH Levels: AVG. Levels:
--	---	--

Designated Facility (Transport to): (name & address) TPS Technologies Inc. 12328 Hibiscus Avenue Adelanto, California 92301	Facility Phone #: (800) 862-8001 Person to Contact: Darren Bartlett FAX #: (619) 246-8004	Facility Permit Numbers:
--	--	--------------------------

Transporter Name and Mailing Address: Maness Environmental Svcs Inc. 1101 E. Spring Street Long Beach, CA 90807	Transporter's Phone #: (310) 595-4555 Person to Contact: Richard Okuda FAX #: () -	Transporter's US EPA ID No.: Transporter's DOT No.: Customer Account Number with TPS:
--	--	---

Description of Soil				Quantity	Weight	Volume
Sand <input checked="" type="checkbox"/>	Organic <input type="checkbox"/>	0-10% <input type="checkbox"/>	Gas <input type="checkbox"/>	22+	80420	29420
Clay <input type="checkbox"/>	Other <input type="checkbox"/>	10-20% <input type="checkbox"/>	Diesel <input type="checkbox"/>			
		20%-over <input type="checkbox"/>	Other <input type="checkbox"/>			
Sand <input type="checkbox"/>	Organic <input type="checkbox"/>	0-10% <input type="checkbox"/>	Gas <input type="checkbox"/>			
Clay <input type="checkbox"/>	Other <input type="checkbox"/>	10-20% <input type="checkbox"/>	Diesel <input type="checkbox"/>			
		20%-over <input type="checkbox"/>	Other <input type="checkbox"/>			

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Robert G. Tuell, Jr.	Signature and date: Robert G. Tuell, Jr.	Month: 07 Day: 28 Year: 94
---	---	----------------------------

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: KATHA PRATT	Signature and date: KATHA PRATT	Month: 7 Day: 28 Year: 94
------------------------------------	------------------------------------	---------------------------

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: James A. ...	Signature and date: James A. ...
-------------------------------------	-------------------------------------

TRANSPORTER'S COPY

Manifest

TPS Technologies Soil Recycling

Non-Hazardous Soils

Manifest #

Date of Shipment:

07-28-94

Transporter Truck #

126

03

3158

Load #

20

DOUGLAS AIR CRAFT COMPANY
DEPARTMENT C1-710, MC 127-10
3855 LAKEWOOD BLVD.

LONG BEACH, CA. 90846
SITE ADDRESS: 19503 S. NORMANDIE, TORRANCE, CA

Generator's Name and Billing Address:

Maness Environmental Svcs Inc.
1101 E. Spring Street

Long Beach, CA 90807

Facility Phone #

(310) 595-4555

Richard Okuda

FAX #

-

Customer Account Number with TPS

Designated Facility Name and Address:

TPS Technologies Inc.
12328 Hibiscus Avenue

Adelanto, California 92301

Facility Phone #

(800) 862-8001

Person to Contact:

Darren Bartlett

FAX #

-

ETX

10/94

Permit Numbers

Generator's Name and Billing Address:

Maness Environmental Svcs Inc.
1101 E. Spring Street

Long Beach, CA 90807

Facility Phone #

(310) 595-4555

Person to Contact:

Richard Okuda

FAX #

-

Transporter's US EPA ID No.:

Transporter's DOT No.:

Customer Account Number with TPS:

Description of Soil	Moisture Content	Contaminated by:	Approximate Quantity	Description of Delivery	Weight	Volume	Net Weight
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input checked="" type="checkbox"/> Other <input type="checkbox"/>	22 +		79660	30140	49520
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					74.76

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by melus for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name:

Robert G. Tuell Jr.

Generator

Consultant

Signature and date:

Robert G. Tuell Jr.

Month

07

Day

27

Year

94

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name:

Gabriel Orozco

Signature and date:

Gabriel Orozco

Month

7

Day

28

Year

94

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name:

DARREN A. BARRETT

Signature and date:

DARREN A. BARRETT

Month

7

Day

7

Year

1994

lease print or type

TPS NUMERICAL COPY

Manifest

TPS Technologies Soil Recycling Non-Hazardous Soils

Manifest # 1

Date of Shipment: 07-28-94	Transporter Truck # 1	Load # 021
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DOUGLAS AIR CRAFT COMPANY
DEPARTMENT C1-710, MC 127-10
3855 LAKEWOOD BLVD.
LONG BEACH, CA. 90846
SITE ADDRESS: 19503 S. NORMANDIE, TORRANCE, CA

310-533-7926

Generator's Name and Billing Address:
Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

Consultant's Phone #
(310) 595-4555
Person to Contact:
Richard Okuda

Designated Facility Address:

TPS Technologies Inc.
12328 Hibiscus Avenue
Adelanto, California 92301

Facility Phone #
(800) 862-8001
Person to Contact:
Darren Bartlett
(619) 246-8004

Transporter Name and Mailing Address:
Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

Transporter's Phone #
(310) 595-4555
Person to Contact:
Richard Okuda
FAX #
Transporter's US EPA ID No.:
Transporter's DOT No.:
Customer Account Number with TPS:

Description of	Moisture	Generated by:	Approx Qty	Method of Delivery	Gross Weight	Net Weight
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input checked="" type="checkbox"/> TPH	22+		75420	30500 44920
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>				24.1

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☒ Consultant ☐
Robert G. Tuell, Jr. Signature and date: **Robert G. Tuell, Jr.** Month **07** Day **28** Year **94**

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: **Charles Willson** Signature and date: **Charles Willson** Month **07** Day **28** Year **94**

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: Signature and date: **Lance Clement 7-28-94**

Generator and/or Consultant

Transporter

Recycling Facility

Please print or type.

TPS NUMERICAL COPY

Manifest

TPS Technologies Soil Recycling Non-Hazardous Soils

Manifest #

Date of Shipment: **07-28-94** Transporter Truck # **03** Load # **022**

DOUGLAS AIR CRAFT COMPANY
DEPARTMENT C1-710, MC 127-10
3855 LAKEWOOD BLVD.
LONG BEACH, CA. 90846
SITE ADDRESS: 19503 S. NORMANDIE TORRANCE

310 533-7926

Consultant Name and Billing Address:
Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

Consultant Phone #
(310) 595-4555
Person to Contact:
Richard Okuda

Customer Account Number with TPS

Generation Site Transporter Name and Address:

Site Phone #
() -
Person to Contact:
FA# () -
JETA Levels
TPH Levels
AVG Levels

Designated Facility Transporter Name and Address:
TPS Technologies Inc.
12328 Hibiscus Avenue

Facility Phone #
(800) 862-8001
Person to Contact:
Darren Bartlett
(619) 246-8004

Facility Permit Numbers

Transporter Name and Mailing Address:
Maness Environmental Svcs Inc.
1101 E. Spring Street
Long Beach, CA 90807

Transporter Phone #
(310) 595-4555
Person to Contact:
Richard Okuda
FA# () -

Transporter's US EPA ID No.

Transporter's DOT No.

Customer Account Number with TPS

Description of Soil	Contaminant	Quantity	Description of Soil	Gross Weight	Net Weight
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input checked="" type="checkbox"/> XTPH	17+	604200	31720 32400
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>			MC-24

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☒ Consultant ☐
Robert G. Tuell, Jr. Signature and date: Robert G. Tuell, Jr. 07 28 94

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: FAL HULLINGER Signature and date: 07 28 94

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: Signature and date: Land Cement 7-28-94

Please print or type.

TPS NUMERICAL COPY

Manifest

TPS Technologies Soil Recycling Non-Hazardous Soils

Manifest #

Date of shipment:

07-28-94

Transporter Truck #

11

03

Load #

3158

0123

DOUGLAS AIR CRAFT COMPANY
DEPARTMENT C1-710, MC 127-10
3855 LAKEWOOD BLVD.
LONG BEACH, CA 90846

310 533-7926

SITE ADDRESS: 19503 S. NORMANDIE, TORRANCE, CA

Maness Environmental Svcs Inc.
1101 E. Spring Street

(310) 595-4555

Richard Okuda

Long Beach, CA 90807

TPS Technologies Inc.
12328 Hibiscus Avenue

(800) 862-8001

Darren Bartlett

Adelanto, California 92301

(619) 246-8004

Maness Environmental Svcs Inc.
1101 E. Spring Street

(310) 595-4555

Richard Okuda

Long Beach, CA 90807

FA#

Facility Permit Numbers

Transporter's US EPA ID No.

Transporter's DOT No.

Customer Account Number with TPS

Description of Soil	Moisture Content	Approx. Qty	Description of Delivery	Gross Weight	Net Weight
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	25+		80340	30160
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20% - over <input type="checkbox"/>				50110

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by melus for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Robert G. Tuell, Jr. Signature and date: Robert G. Tuell, Jr. Month: 07 Day: 28 Year: 94

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Miguel Guerrero Signature and date: Miguel Guerrero Month: 07 Day: 28 Year: 94

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: Sanchez Clemente Signature and date: Sanchez Clemente Month: 7 Day: 28 Year: 94

see print or type

TPS NUMERICAL COPY